



TuneBase[®] 200

Installation and User's Guide

Escient[®] Convergence Corp.
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About This Manual

This combination installation and user's manual serves as a step-by-step guide to setting up the TuneBase 200 system developed and shipped by Escient Convergence. Chapter 2 shows you how to set up and connect TuneBase 200 to your other equipment, while the rest of the Chapters show you how to use TuneBase 200 for your music enjoyment.

Record Your Serial Number

The serial number for this unit is located at the rear of the device. Please record the serial number in the space provided below. Refer to it whenever you call upon your Escient dealer regarding this product.

TuneBase 200 Serial No. _____

Copyright

This manual is the copyrighted property of Escient Convergence Corp. Any use or reproduction of this manual in any form without the expressed written permission of Escient Convergence Corp. is a violation of copyright laws.



The notes icon is shown throughout this manual. It indicates a tip or an additional piece of information that could prove useful.

Warranty Information

Terms of Coverage - Each Escient Convergence Corp. branded music management system sold and installed in the United States, comes with a standard one (1) year warranty. This warranty provides no-charge coverage under normal product usage, for a period of one year from the date of registration and/or purchase (whichever is earlier). This warranty program provides the following key features and benefits:

- Twelve (12) months service, parts and labor.
- Five (5) day turn around time on all standard in-warranty repairs. No charges to the customer other than in-bound shipping charges which are determined by the shipping method. All return shipments will be via Standard Ground Transportation (approximately 5 business days).
- Twelve (12) months of regular hour telephone support (9AM to 7PM EST), Monday through Friday.
- 24-hour email response from the Escient Convergence Corp. Support Web Site.
- Free software upgrades for a period of twelve (12) months. 24-hour on-line software maintenance updates provided via a broadband or dial-up telephone connection.
- Twelve (12) months of access to online music recognition services, including, but not limited to, CD text information and cover art.
- Access to 24-hour music database (CDDb) and entertainment services providing access to over 900,000 CD titles and associated information.

What is Covered - The goal of this warranty is to cover operational problems that might arise with your product during normal use. This includes failure to start, improper operation, or intermittent failures. As part of the warranty, Escient Convergence Corp. will pay for all labor and materials used in the repair of the system. Escient Convergence Corp. reserves the right to use new or factory refurbished parts in the repair of these in-warranty systems.

Escient Convergence Corp. will also pay for the return shipment of the repaired system via standard ground transportation.

At Escient Convergence Corp.'s discretion, the Company will repair or replace any system sent in for repair. Upon repair, the product will be new or like-new in condition and will meet all necessary regulatory requirements.



What is Not Covered - Escient Convergence Corp. products are sold through Escient Convergence Corp. approved dealers. A number of items must remain intact in order for Escient Convergence Corp. to verify and validate this warranty. Additionally, there are several conditions which violate Escient Convergence Corp.'s warranty program. These include:

- The product must have been purchased through an Escient Convergence Corp. approved dealership.
- Any product, on which the serial numbers has been defaced, modified or removed physically or electronically will not be covered by an Escient Convergence Corp. warranty.
- Escient Convergence Corp. will not cover under warranty damage to the product as a result of accident, misuse, abuse, neglect, fire, water, lightning, or other acts of God or nature, improper storage, unauthorized modification, or failure to follow instructions.
- Any type of unauthorized repair or modifications made to the system resulting in damage to the product will not be covered under this warranty.
- Damage caused to the product as a result of improper shipping or installation.
- Any problems related to the use of the product which is not a direct problem with the product.
- Damage caused to the product as a result of improper installation to third party peripherals or products, or incorrect connection to peripheral or products.
- Unauthorized software installation.

Additionally, Escient Convergence Corp. does not cover the following items under the terms or its warranty programs:

- Installation or removal charges.
- Cost of initial technical adjustments (setup costs).
- Battery replacement.

Escient Convergence Corp.'s sole liability for any defective product is limited to the repair or replacement of the product at our discretion. Escient shall not be liable for damages to other property caused by defects in this product, damages based upon inconvenience, loss of use of the product, loss of time or data, commercial loss or any other damages, whether real, incidental or consequential.



How to Return a Product - Contact your dealer or Escent Convergence Corp.'s Customer Support group at 800-372-4368. Please have the following information ready for your dealer or Escent Convergence Corp.'s Customer Support technician.

- Product Serial Number
- Model Number
- Date of Registration or Purchase

Upon reviewing the request for repair under warranty provisions, Escent Convergence Corp.'s Technical Support group will issue a Return Material Authorization (RMA) number. This number is to be attached to the outside of the shipping carton. Additional instructions will be provided by technical support.

Please be sure to use original packing carton and internal packing materials to assure proper shipment of the system. Insurance costs are the responsibility of the customer. Most shippers only provide standard coverage for \$100 in cost so please protect yourself by providing additional insurance for the returned product.

Out of Warranty Repair - Escent Convergence Corp. provides out of warranty repair service on a cost plus labor basis. Minimum charges will apply. Technical support will provide information on this service at the time of the call.



Regulatory Statements

"NOTICE: The Industry Canada label identifies certified equipment. This certification means that the equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate."

"NOTICE: The **Ringer Equivalence Number** (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5."



Additional information regarding this statement may be found in Appendix B.

Trademarks & Service Marks

Escient and the Escient logo are registered trademarks of Escient Technologies, LLC.

TuneBase 200 is a trademark of Escient® Convergence Corp.

Other product names mentioned herein are used for identification purposes only and may be trademarks of their respective companies.

Gracenote is CDDb, Inc. d/b/a “Gracenote.” CD-related data from Gracenote CDDb®, copyright 1999, 2000, 2001 Gracenote. CDDb is a registered trademark of Gracenote. The Gracenote logo and the Gracenote CDDb logo are trademarks of Gracenote. Music Recognition Service and MRS are service marks of Gracenote.



Enhanced entertainment services are provided by OpenGlobe®. These services provide the ability to explore new music, learn about artists and their influences, purchase new music, and more.



Hereafter in this manual, Escient Convergence Corp. shall be referred to as Escient.



TuneBase® 200

Escient and OpenGlobe Privacy Policy

Escient is committed to providing you with a product that you enjoy and are confident in using, while OpenGlobe is committed to providing services in a private and secure environment. We recognize and respect each individual user's privacy and have created this Privacy Policy to demonstrate our commitment to your privacy. We want you to be fully informed about the information that we collect, why we collect it, and with whom we share it.

It is our hope that, after reading this notice, you will understand our commitment to privacy and be confident that we will use your information responsibly. By using the Escient TuneBase 200, you are accepting the practices described in this Privacy Policy.



The Escient and OpenGlobe Privacy Policy appears on the zip code screen of the Quick Start automatic setup procedure.

In addition, you can access the statement at any time by pressing the SETUP key on your remote or keyboard and choosing the option: **user information, privacy policy**.

Cautions & Warnings

Caution: To reduce the risk of electric shock, do not remove the cover. No user serviceable parts are inside. Refer servicing to qualified service personnel.

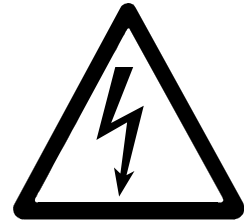
Caution: To prevent electric shock, do not use a 3 wire to 2 wire adapter plug.
A 3 prong outlet is required.

Caution: You are cautioned that any change or modification not expressly approved in this manual or approved in writing by an authorized representative of Escient could void your warranty and/or your authority to operate this equipment.

Caution: Prolonged use of any video device which produces a static (non-moving, non-changing) or repetitive image on your projector, television or plasma display device can cause “screen burn-in”. You are encouraged to leave the TuneBase 200 screen-saver turned on and set to the lowest possible “time-out” duration.

Manual Disclaimers

At the time of printing, the TuneBase 200 screen shot images in this manual matched the TuneBase 200 interface screens. However, since TuneBase 200 has the capability of downloading software updates and enhancements on a regular basis, the resulting screen updates may no longer match the images in this manual.



Terms and Definitions

Following are terms used throughout this manual.

- **Autobuild** -the process whereby TuneBase 200 connects to the Internet and performs a disc lookup (gets cover art, track titles, artist info) on CD's in your attached changers.
- **Button** - refers to a graphic item on the display screen.
- **Group** – a collection of similar titles used to organize content. Standard groups are provided (such as groups based on genre) and custom groups can be created. For example, within the Music guide, groups contain a collection of CD's or custom Playlists organized automatically by genre or manually by the user.
- **Highlight** – highlighting is used to indicate the cursor location. When the cursor moves up, down, left, or right, the highlight moves to the next nearest item. No action is taken except that more information may be displayed on the screen, until the Select key is pressed.
- **Info text area** – the portion of the guide screen used for displaying the description of the highlighted title.
- **Key** - refers to the push-down mechanisms on your remote or keyboard.



- **Playlist** – a custom Music title made up of tracks from one or more titles – in effect, a custom CD.
- **Selected** – the result of pressing the PLAY or SELECT key to activate the highlighted title, track, or program.
- **Title** – the name of the music collection, typically used with CD titles or Playlists. Music titles can include the album name for a standard CD or the name of a custom Playlist.
- **Tracks** – single songs within a Music title (CD, or Playlist title).



Contact Information

Escient Convergence Corp. may be contacted by using the following information. Once you have worked with your local Escient dealer, we encourage you to contact us if you are in need of any further assistance.

Escient Convergence Corp.
6325 Digital Way
Indianapolis, Indiana 46278
Phone: 800-372-4368 Press "1" for Sales, or "2" for Support
Pager Support (24-hour): 317-990-2333
Hours: Monday - Friday 9:00am - 7pm EST
Fax: 317-616-6790
www.escientconvergence.com
Email: support@escient.com



Please visit the Escient website at www.escientconvergence.com for the current product updates, technical information, and document updates.

The website is also the most convenient method for accessing information, 7 days a week, 24 hours a day.

Chapter 2-Setting Up TuneBase[®] 200

- Unpack The Equipment**
- What Else Is Needed**
- Back Panel Reviewed**
- Connecting TuneBase 200 to a Composite TV or Monitor**
- About Connecting Audio**
- What CD Changers are Supported?**
- Connecting CD Changer(s) Overview**
- Connecting Sony Changers Using S-Link Cables**
- Connecting CD Changers Using RS-232 Cables**
- Connecting CD Changers Using Digital Connectors**
- Connecting Devices Using IR**
- Connect to Internet Using Internal Modem**
- Connect to Internet Using HPNA**
- Connect Multi-Room Controller or Touch panel**
- Connect Power Cord**
- TuneBase 200 Power States: On, Standby, Off**

2

Unpack The Equipment

- ❶ Carefully unpack all of the TuneBase 200 equipment from the shipping container.
- ❷ Next, compare it to the following list and make sure you have everything available before you get started.
 - TuneBase 200 unit packed in plastic bag
 - Escient 48 button remote control w/(qty2) AA batteries
 - A/C Power Cord - 5'
 - S-Video cable (Y-C) - 5'
 - Composite Video cable - 5'
 - Phone cable - 25'
 - S-Link mono cable - 10'
 - Dual RCA cable - 5'
 - TOSlink Digital Audio Cable - 3'
 - User/Installation Manual
 - Quick Start Guide

Optional items:

- Wireless keyboard with 3 AA batteries
- Escient Touch Panel: Model ETP-1000
- USB to Ethernet Adapter
- RS-232 Communication Cables (for other CD changers or control & audio distribution systems).
- Escient Pipeline Software - allows editing of TuneBase 200 data (such as playlists, song names, groups) on a PC.
- Rack shelves specifically made for the TuneBase 200 unit (available from Middle Atlantic at <http://www.middleatlantic.com> or 973-839-1011)
- HPNA Bridge or Router



Since no two people are likely to have the same exact audio or video configuration, the steps involved in putting the TuneBase 200 system together are not specific to any one piece of audio or video equipment. Therefore, it may be necessary for you to customize one or more of the cables that are included with this equipment. Please see Appendix A for a cable pin-out configuration guide.

Depending upon the intricacy of the audio and video equipment and the access to each component, installation should take approximately 2-4 hours including Autobuild.



Listings of supported optional equipment such as CD Changers may be found on the Escient website.

What Else Is Needed

In order for TuneBase 200 to function properly, you will need to provide the following items:

- ❶ A video connection such as a television, monitor, VGA projector, Touch Panel, or external Control System.
- ❷ Stereo receiver, CD changers, speakers, and other associated audio equipment.
- ❸ Available Internet access through an Internet Service Provider (ISP): standard telephone dial-up or broadband connection such as a cable modem or DSL.

In order to take full advantage of the groundbreaking entertainment services provided through TuneBase 200, the preferred method of connection is Broadband (either Cable Modem or DSL).

TuneBase 200 supports many dial-up Internet Service Providers (ISPs). AOL[®], CompuServe[®], and some free ISPs do not use standard, consistent methods of Internet connectivity and do not open their networks to outside users. Therefore, these cannot be used with TuneBase 200 in a dial-up connection. A special offer for EarthLink's award-winning ISP service is available on one of the TuneBase 200 Quick Start setup screens.



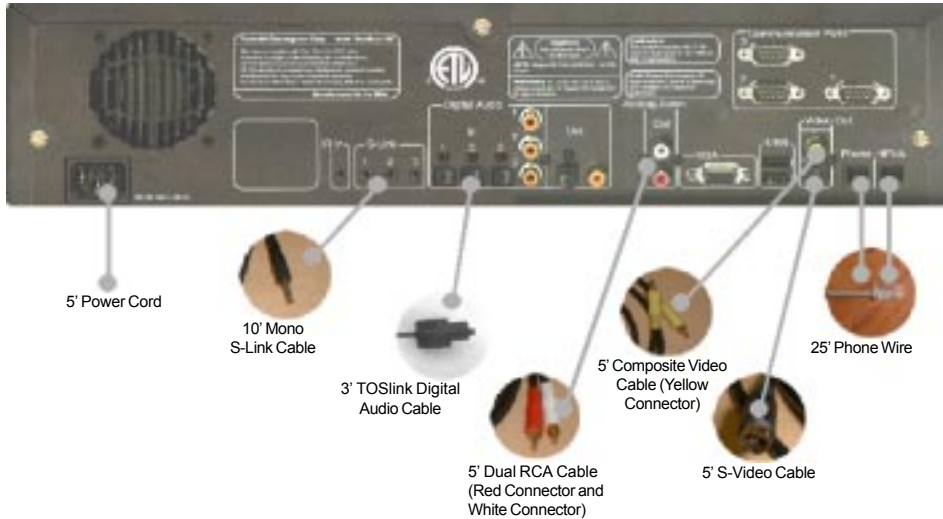
During the Quick Setup procedure in Chapter 3, you will be asked for information regarding your (ISP) Internet Service Provider.

Please gather the following information if you are using a dial-up ISP.

- Dialing Number
- Login Name
- Login Password
- Name of ISP

Back Panel Reviewed

Review the back panel of the TuneBase 200 unit and the associated cabling.



Please note that the audio and video ports on the back panel of the actual TuneBase 200 unit are labeled and color-coded.

Connecting TuneBase 200 to a Composite TV or Monitor

- 1 Use the **Composite Video Cable**, which can be identified through its yellow colored connectors.



- 2 Connect one end of the cable to the **TuneBase 200 Video Out (Composite) port**.



- 3 Connect the other end of the cable to the **Video In (Composite) port on your TV or Monitor**.



The cables you receive are black. The connectors on the cables are the only portions that are "colored."



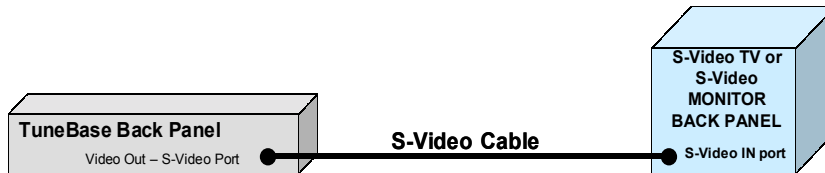
Note to Escient dealers:
If connecting TuneBase 200 to a TV, there may be several VIDEO IN ports. Use a VIDEO IN port that is not currently being utilized. Also, be sure to inform your client which port is connected to TuneBase 200 so that the appropriate selection can be made to access TuneBase 200.

Connecting TuneBase 200 to an S-Video TV or Monitor

- 1 Use the **S-Video Cable**, which can be identified as a gold cup connector with tiny pins inside.



- 2 Connect one end of the cable to the **TuneBase 200 Video Out (S-Video) port**.



- 3 Connect the other end of the cable to the **S-Video In port on your TV or Monitor**.



Note to Escient dealers:

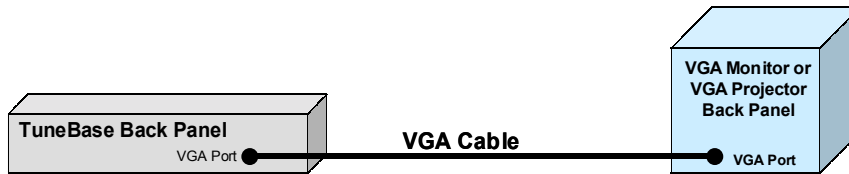
If connecting TuneBase 200 to a TV, there may be several VIDEO IN ports. Use a VIDEO IN port that is not currently being utilized. Also, be sure to inform your client which port is connected to TuneBase 200 so that the appropriate selection can be made to access TuneBase 200.

Connecting TuneBase 200 to a VGA Projector or Monitor

- 1 Use a VGA cable.
(Not supplied with TuneBase 200.)



- 2 Connect one end of the cable to the **TuneBase 200 VGA port**.



- 3 Connect the other end of the cable to the **VGA port on your VGA device**.



If you are connecting to a VGA Projector or VGA Monitor, you may need to supply your own VGA cable (must be less than 25 feet).

About Connecting Audio

TuneBase 200 does not contain an amplifier nor does it contain speakers, so it will be necessary for you to have your TuneBase 200 attached to a stereo receiver or to amplified speakers. Follow your particular manufacturer's instructions for this hookup procedure.

You will also be attaching audio connections from the cd changer or controller to the TuneBase 200 unit. To take full advantage of the digital capabilities of your music management system and for best audio performance, please use the appropriate cables for your particular devices. TuneBase 200 is equipped with input and output ports for the following types of audio inputs/outputs:

- 1 set of stereo analog audio outputs
- 1 coax S/PDIF output
- 1 optical TOSLink output
- 3 coax S/PDIF inputs
- 3 optical TOSLink inputs



Escent recommends protecting TuneBase 200 with a surge suppressor or an uninterruptable power supply (UPS). Surge Protectors and UPS devices come in different sizes/ratings. Be sure to evaluate the protection capacity of the unit by checking the manufacturer's guidelines.

What CD Changers are Supported?

The following changers with digital audio outputs are or will very soon be currently supported by TuneBase 200. **Since new models continue to become available, please check the Escient website for the latest list of supported CD Changers.**

- Sony Audio Changers (CDPCX-220, 300, or 400 series)
- Pioneer DVD Changer (DVF07) Compatible in late 2002
- Marantz (VC8100) Compatible in late 2002
- Integra by Onkyo (DPT-1) Compatible in late 2002
- Kenwood CD Changers: (CD-4700M, CD-425M) Compatible in late 2002
- Kenwood DVD Changers: (DV-5700M, DV-5030M) Compatible in late 2002

When new changer models become compatible, you can use the SETUP, UTILITIES, UPDATE SOFTWARE menu to download compatible TuneBase 200 software over the Internet connection. Please refer to Chapter 6 for instructions.



During the automatic Quick Start setup procedure, TuneBase 200 checks for any supported CD Changers. If CD changers are found, the appropriate internal settings will be made to setup the changer for play back, play through and control. For example, if a supported changer is detected, the digital inputs are reserved for this changer's use and will not show up as an External Input in the Music Guide.

Connecting CD Changer(s) Overview

CD Changers can be connected to TuneBase 200 in a variety of ways, depending upon model and cable attachments.

- Sony changers are connected through standard S-Link cables.
- Some changers connect to communication ports through the use of RS-232 cables. Examples of popular brands that connect in this manner: Kenwood, Pioneer, Marantz, and Onkyo.
- Other changers may also connect through digital connections requiring fiber optic or co-ax digital cables.



You should not interact with the front panel of your changer except to load and unload discs.

Connecting Sony Changers Using S-Link Cables

Up to 3 Sony changers can be connected to TuneBase 200 using individual standard S-Link cables.

- 1 Use the S-Link cable (1/8" mini-jack).



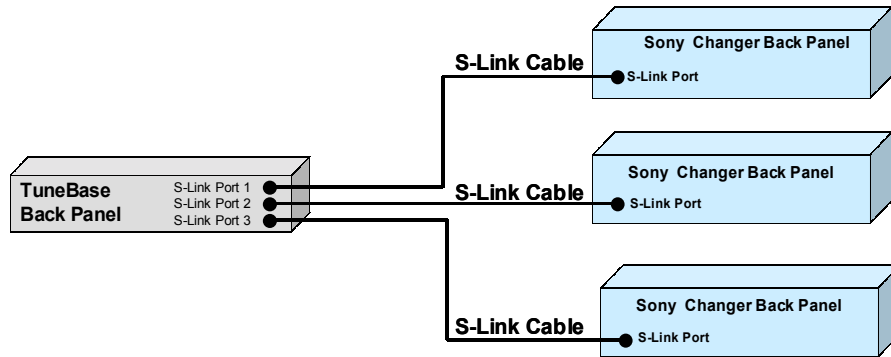
- 2 Connect one end of the cable to the **TuneBase 200 S-Link (number 1) port**.



- 3 Connect the other end of the cable to the **S-Link port on your Sony changer**.
- 4 To connect additional Sony changers, repeat steps 1 through 3 using S-Link Ports 2 and 3. See next page.



If you need more S-Link cables, use 6' - 8' standard & mono 1/8" mini-jack cables. Do not exceed 10' in length.



When installing digital audio inputs and S-Link input to TuneBase 200, make sure S-Link 1 and Digital Audio 1 are from Changer 1, S-Link 2 and Digital Audio 2 are from Changer 2, etc.

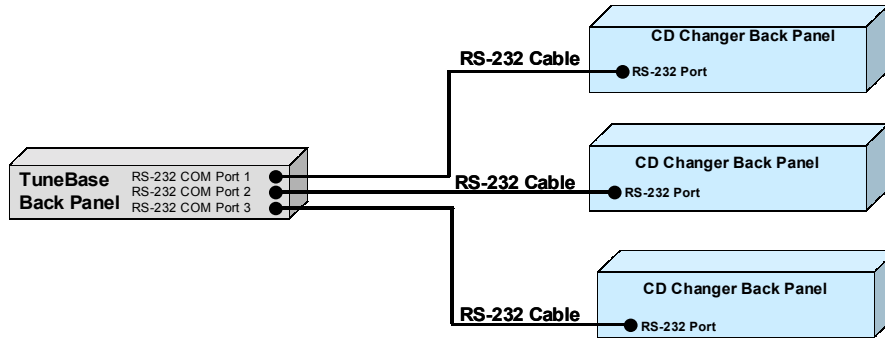
- 5 **Set CD Control on all Sony Changers to 1.** This is either a switch setting on the back of the changer or a front panel menu selection. Please refer to your Sony manual for instructions.
- 6 **Connect audio from each CD Changer to TuneBase 200.** Connections using optical cables to the digital ports will produce the highest quality audio.

Connecting CD Changers Using RS-232 Cables

- ❶ Use an RS-232 cable (not supplied) with connectors made specifically so that one end connector fits the pin configuration for TuneBase 200 and the other end connector fits the pin configuration for your specific CD changer. Refer to Appendix A for the pin configurations.
- ❷ Insert one end of the cable (the TuneBase 200 connector end) into an RS-232 COM port on TuneBase 200. There are 3 available COM ports.
- ❸ Insert the other end of the cable (the connector that fits the CD Changer) into the RS-232 port on the CD Changer.
- ❹ To connect additional CD changers, repeat steps 1 through 3 using the other COM ports. See next page.



Refer to Appendix A for cable pin-out configurations.



- 5** Connect audio from each CD Changer to TuneBase 200. Or, refer to the changer's manufacturer documentation regarding daisy-chaining or audio pass-through capabilities.



Connecting CD Changers Using Digital Connectors

- ① Use provided TOSlink cable.
- ② Insert one end of the cable into the TuneBase 200 Digital Input Port.



- ③ Insert the other end of the cable into the Digital Output port on your changer.
- ④ To connect additional CD changers, repeat steps 1 through 3 using the additional TuneBase 200 digital ports provided.
- ⑤ Connect audio from each CD Changer to TuneBase 200.

Connecting Devices Using IR

- ① Insert an appropriate IR cable that will connect to the 1/8" mini connector on the back of the TuneBase 200 Unit.
- ② Insert the other end of the IR cable into the IR out port on your device.



The Kenwood line of CD/DVD players (Model 5050 and 5900) have both Digital Coax Out and TOSLink ports and could be connected through either type of cabling.

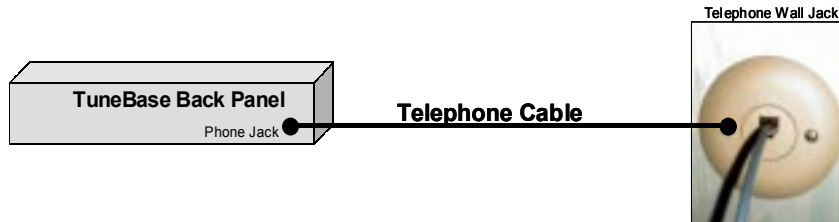
Connecting to Internet Using Internal Modem

TuneBase 200 contains an internal modem that can be used to connect to the Internet for retrieving information such as music data, cover art, and entertainment services.

- 1 Use the **Telephone Cable**.
(Can be identified by see-through connectors.)



- 2 Connect one end of the telephone cable to the **TuneBase 200 Phone (modem jack)**.



- 3 Connect the other end of the telephone cable to the **Telephone Wall Jack**.



TuneBase 200 is designed to automatically connect and disconnect from the Internet as needed. A list describing when Internet connections occur can be found in Appendix E.



The preferred method of connecting to the Internet is Broadband (either Cable Modem or DSL).



If you have a network with a gateway to the Internet, TuneBase 200 allows you to connect through a broadband connection such as Cable Modem or DSL service. This may require the use of a USB to Ethernet Adapter. Diagrams of possible networking configurations are available in Appendix G - Home Networking.

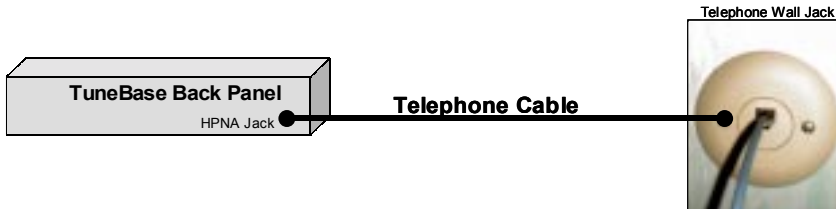
Connecting to Internet Using HPNA

TuneBase 200 has an HPNA jack that can be used to connect to the internet. (Minimum and maximum length cabling requirements are found in Appendix G - Home Networking.)

- 1 Use the **Telephone Cable**.
(Can be identified by see-through connectors.)



- 2 Connect one end of the telephone cable to the **TuneBase 200 HPNA jack**.



- 3 Connect the other end of the telephone cable to a **Telephone Wall Jack**.



The preferred method of connecting to the Internet is Broadband (either Cable Modem or DSL).



Connecting to the Internet using Ethernet requires a USB to Ethernet Adapter. In addition, certain minimum and maximum length cabling requirements must be met. Please see Appendix G - Home Networking for additional information.

Connecting Multi-Room Controller or Touch Panel

Three RS-232 external control ports (Communication Ports) are available on TuneBase 200 so that you can add Control and Audio Distribution systems from other manufacturers, or an optional Touch Panel from Escent Convergence.

The supported Control and Audio Distribution systems for TuneBase 200 are AMX and Crestron with additional equipment support to follow.*

The RS-232 cable needed to connect TuneBase 200 to any of these models is dependent upon the model's RS-232 pin configuration, and therefore the cable may have to be custom-made. In most cases this will be a DB-9 Null Modem Cable (please refer to Appendix A).

- ❶ Find the RS-232 pin configuration for your Control System model in Appendix A of this manual.
- ❷ Contact a Custom Cable Supplier to make a cable for your particular configuration.
- ❸ Connect one end of this cable to the TuneBase 200 RS-232 communication Port.
- ❹ Connect the other end of this cable to the RS-232 communication port on your Control System.



* Control and Audio Distribution system models that can integrate with TuneBase 200 are updated periodically and may not be reflected in this particular manual. Please consult your Dealer or Escent if you wish to use a system not specified in this manual.

Connect Power Cord

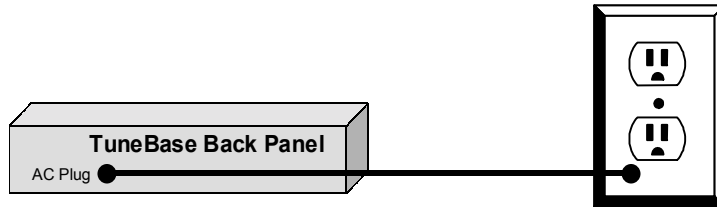
❶

Use the **Power Cord**.



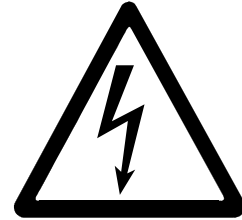
❷

Connect one end of power cord to the **TuneBase 200 AC Port (plug)**.



❸

Connect the other end of the power cord to a 120V electrical outlet.



Caution: To prevent electric shock, do not use a 3 wire to 2 wire adapter plug. A 3 prong outlet is required.

TuneBase 200 Power States: On, Standby, Off

After the TuneBase 200 unit is plugged in, the LED located next to the power button will flash - when it is finished flashing, the LED will stop flashing and turn OFF. This means TuneBase 200 is now in a standby or “sleep” mode. Because there is no video, the unit may appear to be in an OFF mode, however, the unit is actually in standby. You can now press the Power button (on the front panel or on the remote) once and the display will appear immediately. The Power LED will turn ON.

To change from the ON mode back to the standby or “sleep” mode, press the Power button on the front panel or on the remote once.

To reset the TuneBase 200 unit, PRESS and HOLD the Power button for more than 4 seconds and release. The Power LED light will blink for approximately 3 minutes before turning OFF. When the light is OFF, you can press the Power button on the front panel or on the remote.

If power is removed from TuneBase 200 for any reason, including a power outage or if the unit is unplugged, TuneBase 200 will automatically return to the Standby state as soon as power is restored. When TuneBase 200 is turned on again, TuneBase 200 will return to the same source mode that it was in when power was lost.



Please follow the guidelines regarding Power ON and Power Standby procedures.

TuneBase 200 has three power states:

- 1. ON - you will see video output on your display. The Power LED is lit constant.**
- 2. STANDBY or SLEEP - no video output, the Power LED is OFF.**
- 3. OFF - unplugged from the wall unit.**

Chapter 3 - Getting Started

What Is The Setup Process?
Running Quick Start
Guided Tour Through Quick Start
Run the Autobuild Process
Inserting and Removing Discs
Adding or Removing Changers
Register with Escient
Using the Remote, Keyboard or Touch Panel
Overview of User Interface

3

What Is The Setup Process?

To optimize TuneBase 200 so that you can enjoy all of its capabilities, you will need to go through a “setup” procedure.

You will encounter two types of setup procedures within TuneBase 200.

- ❶ The first type of Setup is Quick Start, and occurs automatically the first time the Power button is pressed. It is a required procedure which presents a series of screens and menus that enable TuneBase 200 to get Internet access.
- ❷ The second type of Setup is one you can initiate at any time by pressing the Setup button on your remote or wireless keyboard . This particular setup allows you to customize user preferences, audio and video settings, changer management, communication port settings, security and parental controls, and more.



The Quick Start process takes an average of 15 minutes to complete. However, the time it takes to process your music library through Autobuild (get CD cover art, titles, artist info) depends upon the number of CD changers and the number of CDs in your collection. For example, four-hundred (400) CDs could take a couple of hours to build the music library. (You do not have to be present during Autobuild. TuneBase can be left unattended.)

Running Quick Start

❶ After you are done with Quick Start, you can use either the remote or the wireless keyboard as your input device. (You cannot use the touch panel during the Quick Start procedure. In addition, you must first calibrate the touch panel before using it.)

❷ If you have an Internet Service Provider (ISP), gather the following information:

- Dialing Number
- Login Name
- Login Password
- Name of ISP

TuneBase 200 has a simple selection menu so that you can easily select and configure your connection on an existing account. Most other ISPs are supported if they use standard PPP type connections. If you do not know if your ISP supports this standard (Point to Point Protocol), simply call the provider and ask. **If you do not have an Internet Service Provider (ISP), please sign up for one before proceeding to step 3.**

❸ Press **Power** on the wireless keyboard or on the TuneBase 200 front panel. If you are using the remote, press the **TB** source button first, then press the **Power** key.



AOL, CompuServe, and free Internet Service providers (ISPs) do not use standard, consistent methods of Internet connectivity and do not open their networks to outside users. Therefore, these cannot be used with TuneBase 200 unless you have a Broadband connection.* Escient Convergence Corp. has set up an out of the box offer with our EarthLink and OpenGlobe partners. You can sign up for EarthLink's award winning ISP service for only \$19.95 per month and receive the first 30 days free. To receive the offer, call EarthLink at 1-800-327-8454. You must mention promo code 400065402 to receive this offer. Call OpenGlobe at 877-885-6392 with any questions regarding this offer.

Guided Tour Through Quick Start

Quick Start is a setup procedure that occurs automatically the first time the Power button is pressed. It is a required procedure which presents a series of screens and menus that enable TuneBase 200 to get internet access.

Each screen contains a button bar at the bottom for accessing the previous or **back** page and the **next** page.



The UP, DOWN, LEFT, RIGHT ARROW keys on the keyboard or remote are used to highlight the items while the SELECT key is used to accept the item. The default button on the Quick Start screens is the **next** button, which means you can always press the SELECT key to accept the current page and move to the next screen.

The following pages guide you through the entire Quick Start process.



Point your keyboard or remote toward the TuneBase 200 unit, and not your display device.



“**Button**” refers to a graphic item on the display screen.

“**Key**” refers to the push-down mechanisms on your remote or keyboard.

**1**

The Quick Start process begins with a welcome screen. Remember to press the SELECT key to advance to the next page. The **next** button is highlighted by default.

2

Do you currently have an ISP (Internet Service Provider)? The **yes** button is highlighted by default.

**3**

If you do not have an ISP account, you will be presented with the option of obtaining one. (Go to step 6).

Pressing SELECT will advance you to the Dial-up Login Info screen.

4

Which type of Internet connection do you have? The choices are: Dial-up modem, HomePNA, and Ethernet (cable modem, DSL, LAN). Dial-up is highlighted by default.



- If you select “Dial-up modem” as the network type, the system will look for a dial tone on the internal modem. If no dial tone is found, you are notified to check the phone line before continuing.

- If you select “HomePNA” as the network type, the system will look for an attached HomePNA network on the built in HomePNA port. If no HPNA activity is found, you are notified that a HomePNA network could not be found and that you should check your HomePNA connections before proceeding.

- If you select “Ethernet” as the network type, the system will look for an attached USB to Ethernet Adapter since it is required for Ethernet networking. If no adapter is found, you are notified that a USB to Ethernet Adapter is required and instructions are provided to obtain one.



AOL, CompuServe, and free Internet Service providers (ISPs) do not use standard, consistent methods of Internet connectivity and do not open their networks to outside users. Therefore, these cannot be used with TuneBase 200 unless you have a Broadband connection.* Escient Convergence Corp has set up an out of the box offer with our EarthLink and OpenGlobe partners.

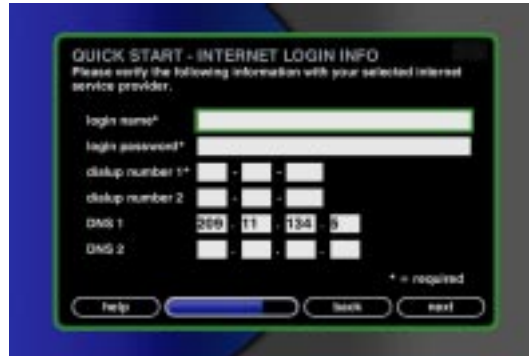
You can sign up for EarthLink's award winning ISP service for only \$19.95 per month and receive the first 30 days free. To receive the offer, call EarthLink at 1-800-327-8454. You must mention promo code 400065402 to receive this offer. Call OpenGlobe at 877-885-6392 with any questions regarding this offer.

*A Broadband connection automatically provides access to the Internet.

5

The **next** button is the only control on this page and is highlighted by default.

TuneBase 200 supports many dial-up Internet Service Providers but requires Internet access through a standard ISP dial-up, cable modem, or DSL. The preferred method of Internet connection is Broadband, so that full advantage can be taken of the groundbreaking entertainment services offered through TuneBase 200.



6

If you are using a dial-up internet account, the Internet Settings screen displays. This is where you enter the login name and password for your ISP account.

The password will appear as visible text when the field is empty AND you are entering the password. Once you leave the password field or whenever you return to this screen, the password text is hidden.

A default entry for DNS is shown, but you can enter your own DNS servers into the TCP/IP Settings screen in Setup.

DNS (Domain Name System) translates Internet domain and host names to IP addresses.



7

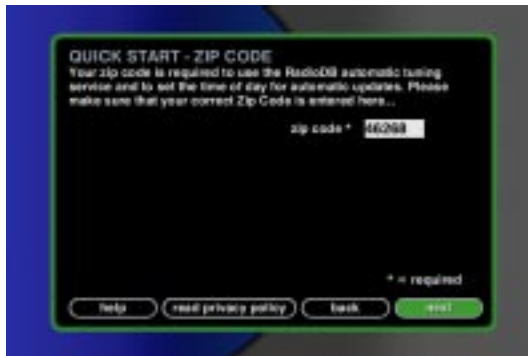
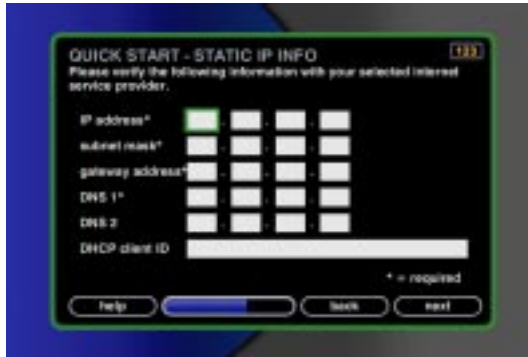
The Internet Dialing screen displays. This screen allows you to setup dialing preferences for your location. This includes dialing method, dialing prefix (if needed), and the ability to disable call waiting.

8

If you have a dial-up account, go to step 10. These screens will not appear.

For HomePNA and Ethernet connections, you can choose between dynamic or manually configured IP information. The **dynamic** button is highlighted by default.

(Dynamic is set by the router. It can vary based on how the router distributes the IP address. Static is defined at installation and does not change unless changes are made by the user.)



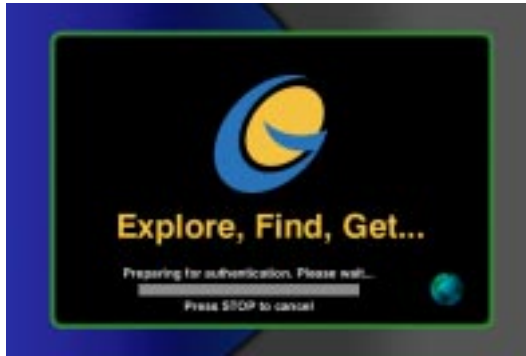
9

If you are using HomePNA or an Ethernet connection, you will be able to set up a static IP address configuration. Fill out all the appropriate fields according to the information that your ISP or network administrator provides. IP Address, Subnet Mask, and Router Address are all required fields. If the IP address entered does not fit into the entered Subnet Mask, a warning dialog appears because you are required to enter a valid IP Address for the current Subnet Mask.

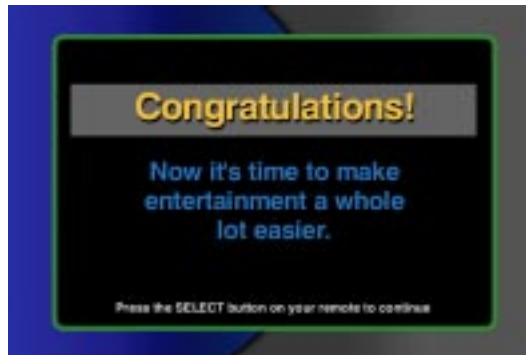
10

Enter your zip code. This is required for Enhanced Services.

Select the **“read privacy policy”** button if you are interested in Escent's privacy policy. It is also available from the SETUP menu.



Please be patient during the authentication process.



1 1

TuneBase 200 now attempts to connect to the OpenGlobe registration server using the previously selected Internet configuration. Each step in the authentication process is conveyed through the text string in the Connection Progress dialog shown. Upon successfully connecting with the OpenGlobe Server, the final Quick Start screen informs you that authentication has been accepted.

If authentication was NOT successful, TuneBase 200 will continue to perform the Quick Start procedure (each time you Power On) until authentication is successful.

1 2

The final step is identifying all the CDs on external changers so that TuneBase 200 can manage the CD libraries. This identification process is called Autobuild. Please proceed to the next page for instructions.

Run the Autobuild Process

TuneBase 200 manages CD libraries on external changers through an initial identification process Escient calls “Autobuild”. During this process, TuneBase 200 contacts the Gracenote CDDb database to gather data about the CDs in your collection. This information includes Artist, Songs/Titles, and Cover Art.

To initiate an Autobuild, load the changer(s) with discs and close the door. Or, if the discs are already loaded, open and close the changer(s) doors. TuneBase 200 will immediately initiate a connection to the CDDb database on the Internet to get the data for your collection. Processing time will vary based on changer brand and models.

When complete, the guide screen will be updated with a CD group on the filter bar and all music available from the attached CD changer(s) will be identified by a CD icon to the left of the title/artist/track that it recognizes. (Some CDs may not be recognized, and in that instance, TuneBase 200 attaches a generic “style/genre of music” cover and generic text.)

Inserting and Removing Discs

After the initial Autobuild, what happens when you insert and remove discs from your changer? If TuneBase 200 detects that a changer door has been closed, the Quick Lookup screen is shown, and TuneBase 200 will begin to check each previously empty slot in the changer to see if any new discs were added. It also checks each previously occupied slot in the changer to see if any discs were removed. However, **do not remove and insert discs into the same slot in the same step.**



We recommend that you do not interrupt the Autobuild process. Please allow enough time (see note below) for the process to complete.



The length of time it takes to complete the Autobuild process is dependent upon changer brand and model. In addition, please allow approximately 30-60 seconds per disc for the actual information processing. This means that a 200-disc changer could potentially take 200 minutes.



Escient Pipeline software, sold separately, allows you to add scanned or downloaded covers not recognized by TuneBase 200.

If it finds new CDs, TuneBase 200 will initiate a connection to the CDDb database on the Internet to get data for your new CD.

If you remove discs and put others back in the same slot, you will have to manually initiate a detailed lookup such as **lookup range** in the **changer management** section in SETUP. The GET MUSIC INFO screen will report the status of the lookup progress until it is complete, or you press STOP to cancel the operation.

Adding or Removing Changers

If a changer has been attached to TuneBase 200, removed, and then re-attached, TuneBase 200 will assume that the disc collection has not changed. If you have made disc changes to TuneBase 200, you should manually go to the **changer management** section in SETUP and check all discs to insure that all discs are recognized.

When you remove a changer, the CD titles and playlists still appear in the guide. However, when you choose a title or a playlist, TuneBase 200 provides a message stating that a changer is not connected and that the music selection or playlist is not available and cannot be played.



To add a new changer, make sure the changer number is set to 1.

Attach the appropriate connections (see Chapter 2).

Power the changer On.

Insert discs. If discs are already inserted, simply open and close the changer door.

This will start the Autobuild process which is the downloading of information regarding your CD collection.

Register with Escient

Please take a moment to register TuneBase 200.

- Press SETUP on your remote or wireless keyboard.
- SELECT **user information**.
- SELECT **user registration**.
- Follow instructions on screen.

Using the Remote, Keyboard, or Touch Panel

You can navigate through the TuneBase 200 menus and screens using any of the following devices: TuneBase remote, wireless keyboard, or Touch Panel.

In order to use your ETP-1000 Touch Panel, it must first be calibrated with the TB-200 Calibration Utility. See Chapter 7 for this procedure.

Each device has its pros and cons and each individual user will undoubtedly have their favorite access method. It is possible that you may end up using different devices depending upon what you want to do.

The basics of navigation are:

- Use the UP, DOWN, LEFT, and RIGHT ARROW keys to maneuver around the screen to highlight items of interest.
- Use the SELECT key to accept the highlighted item.



In order to use your ETP-1000 Touch Panel, it must first be calibrated with the TB-200 Calibration Utility. See Chapter 7 for this procedure.



For a complete overview of each access device, please refer to the Appendices.

Chapter 7 - Touch Panel Overview

Appendix H - Remote Overview

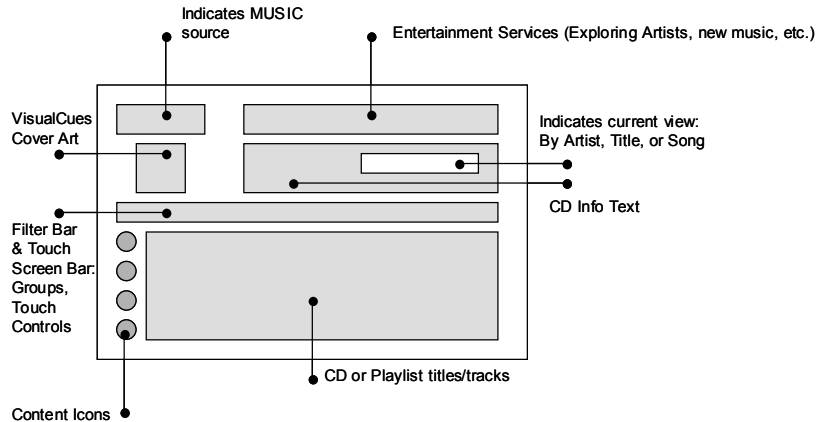
Appendix I - Wireless Keyboard Overview

Overview of User Interface

The TuneBase 200 user interface is very simple and uses three common screens throughout. The screens operate consistently, regardless of the source. The screens you will see are Guide Screen, Player screen, and Option Screen.

Main Guide Screen Overview

Guides contain listings of content that can be selected for listening and assist you in finding and organizing your library.



Sample Guide Screen

Content Icons

In front of each song title track in the Guide Screen is a content icon that describes the format and the type of song displayed. Following are descriptions of all the icons.



This icon indicates that the CD is recognized and has known information associated with it.



This icon indicates that the CD is not available and has been removed from the changer.



This icon identifies the music as a “collection of songs” known as a playlist.



Sample Guide Screen

Player Screen

The Player screen is used to listen to your music content.

- The Music Player allows you to listen to a music selection and view the tracks that are being played, the name of the artist, the title, track times, and a large image of the album's cover art.

Options Screen

The OPTIONS menu allows you to organize and access content.



Title/Track Area Details

- Each item below the filter bar represents a single title or Playlist. A music type indicator is shown to the left of each title name.
- The Music Guide always has one selected title (the title that was last selected in the Music Guide).
- Titles are sorted according to the current guide view: Songs, Titles, and Artists. The guide view can be changed by toggling the MENU/VIEW button on the remote or keyboard.
- Tracks are sorted by the track location on the original CD. On Playlists, tracks are sorted in the order they were originally selected when creating the Playlist.
- The currently highlighted title's information is displayed in the Info Text Area. When a Playlist is highlighted, the Info Text area displays on the Playlist name.

Screen Saver

All player screens will display a screen saver after 10 minutes of inactivity (no user inputs received from the remote or keyboard). You can change the timing of this option through the SETUP menu, PREFERENCES option. (10 minutes is the default.)



All player screens will display a screen saver after 10 minutes of inactivity.

Filter Bar Details

If more than 5 groups exist, the Filter Bar displays an arrow pointing right next to the right most group. This indicates that additional groups are available. When you cursor past the rightmost group to access a new group, all of the displayed groups will slide to the left - hiding the ALL group. An arrow pointing left will be displayed in the left most group.

There are 2 non genre specific groups created automatically: ALL which always exists and includes all titles and PLAYLISTS which contains custom playlists created by you.

There are 15 groups generated automatically based on genre. These groups are Blues, Classical, Country, Dance, Easy, Family, Jazz, Latin, New Age, Other, Pop, R&B, RAP, Rock, and Sound Tracks.



Chapter 4 - Playing Music

Music Player Screen Overview
Navigating the Music Player Screen
Selecting and Listening to a Music Title
Sorting Music by Artist, Title, or Song
One Key Access to Favorite Music
One Key Access to Random Music

4

Accessing Music Mode

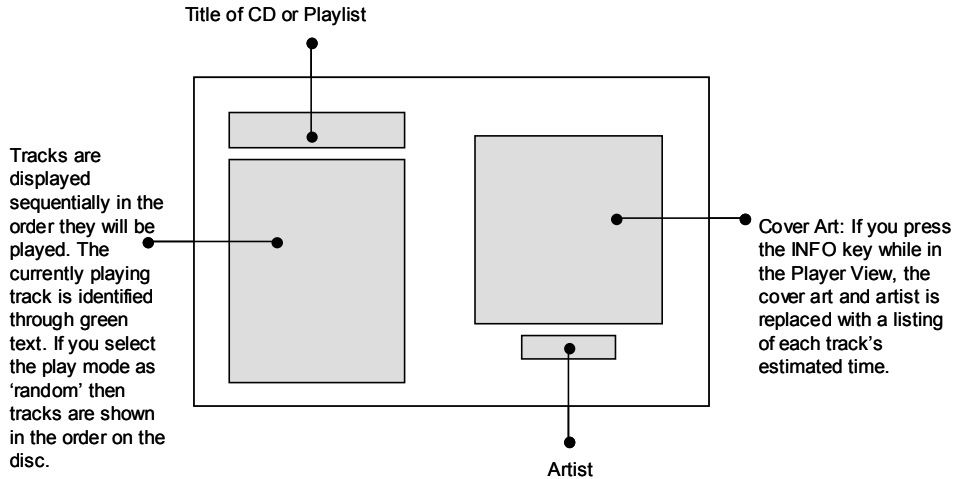
There are a number of ways of entering Music mode:

1. Select the GUIDE key on the remote, Touch Panel, or keyboard. FireBall displays the Music Guide view so that you can navigate and select an item of choice.
3. Select the RANDOM key on the remote. FireBall displays the Player Screen and starts playing a random music selection.
4. Once you have added songs to your “Favorites” playlist, you can select the PLAY FAVORITES key on the remote or the FAVS key on the keyboard to automatically play these songs.



Music Player Screen Overview

When you select a music title for listening, the screen displayed is the Music Player screen.



When a Playlist is playing, the cover and artist name from the currently playing track will be displayed and the Playlist name will appear in place of the usual title.

Navigating the Music Player Screen

- **ARROW** - Use the UP and DOWN keys to move the highlight from one track to another. The RIGHT and LEFT keys are not used on the Music Player Screen.
- **SELECT** - Pressing this key when a track is highlighted stops playing the selected track and starts playing the highlighted track. You can also play the track by pressing the PLAY key.
- **PAGE UP, PAGE DOWN** - These keys are used to scroll the music player track list one page at a time. Each page contains 12 different tracks. On a page that contains less than 12 tracks, the bottom rows will be empty.
- **NUMERIC KEYPAD** - You can enter a track number using the keypad and then pressing the SELECT key.
- **INFO** - When you press this key, detailed track information (transport status, play mode, elapsed track time) is displayed.
- **PLAY, PAUSE, & STOP** - These keys are used to play, pause, or stop music. An onscreen status is provided each time the key is pressed.
- **FAST FORWARD & REWIND** - These keys are used to fast forward and rewind through a track. Both stop when the beginning or end of a track is reached. An onscreen status is provided each time the key is pressed.



Selecting and Listening to a Music Title

- ❶ Press the GUIDE key. The MUSIC GUIDE screen appears.
- ❷ Use the LEFT and RIGHT ARROW keys to highlight the GROUP of your choice.
- ❸ Use the UP and DOWN ARROW keys to highlight the music title of your choice.
- ❹ Press the SELECT or PLAY key on your remote or keyboard. The title tracks and cover art are displayed in the Player screen and the music plays.



Sorting Music by Artist, Title, or Song

- ❶ Press the GUIDE key. The MUSIC GUIDE screen appears.
- ❷ Press the MENU/VIEW key on your remote or keyboard. The screen will toggle through a different view each type you press the key. This allows you to sort your music not only by genre but by artist, by title, or by song.

One Key Access to Favorite Music

The FAVS key on the remote allows you to immediately start playing the music in your “Favorites” playlist. No other key presses are required once you have added music to the list.

To add music to your “Favorites” playlist, simply press the ADD FAVS key on the keyboard or ADD on the remote to quickly add the CURRENT selection of music to the playlist. No confirmation dialog is presented.

One Key Access to Random Music

When you press the RANDOM key on the remote or keyboard, TuneBase 200 automatically starts playing random music selections from TuneBase 200.



Chapter 5 - Managing Music

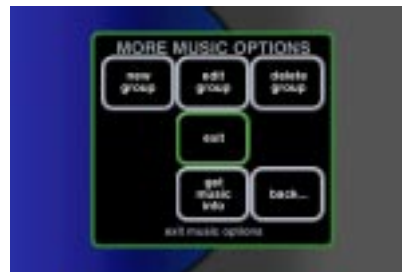
- To Further Organize Your Music
- To Create a New Music Playlist
- To Edit a Music Playlist
- To Delete a Music Playlist
- To Change How Music is Played
- To Edit Tracks
- To Edit Disc Information
- To Search For Cover Art
- To Select Cover Art
- To Access "More..." Music Options
- To Create a New Music Group
- To Edit a Music Group
- To Delete a Music Group
- To Get Music Info

5

To Further Organize Your Music

You can easily manage your music through TuneBase 200's MUSIC OPTIONS feature. This set of screens allows you to create and manage Playlists (lists of songs), look up and edit music information. In addition, MUSIC OPTIONS also allows you to adjust player modes such as random, repeat, audio effects, and speaker settings.

There are two screens of MUSIC OPTIONS. The first screen appears when you press the OPTION key while in MUSIC mode. The second screen becomes available after selecting the “**more...**” button in the MUSIC OPTIONS panel.



“Button” refers to a graphic item on the display screen.

“Key” refers to the push-down mechanisms on your remote or keyboard.



Use the ARROW keys to highlight the desired option and use the SELECT key to activate the desired option.

To Create a New Music Playlist

A Playlist is a collection of specific songs from your music content that you create.

- ❶ Press the **OPTION** key. The **OPTION** panel appears.
- ❷ **SELECT** the **new playlist** button. A screen displays so that you can enter the name for the new playlist.
- ❸ After you have entered the new name, press **SELECT** to continue.
- ❹ When the playlist name is saved, the screen transitions to the **EDIT PLAYLIST** screen where you will select the tracks you want to add to the Playlist from all the music TuneBase 200 knows. Use the **ARROW** keys to navigate through the music and highlight your choice. Use the **SELECT** key to toggle between including (shows check mark) or not including a track.
- ❺ Press the **RECORD** key to save the new playlist and exit the **OPTION** mode.



If no songs are added to a new Playlist, it is not saved. Likewise, if all songs are removed from a playlist, it is deleted.

Up to 200 songs may be added to a single playlist or “favorites” playlist.

There is no limitation on the number of playlists.

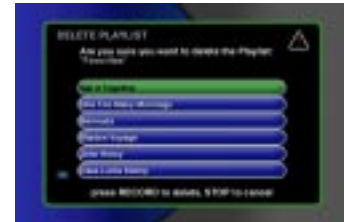
To Edit a Music Playlist

- ❶ Press the GUIDE key. The MUSIC GUIDE screen appears.
- ❷ Use the ARROW keys to highlight the music playlist you want to edit.
- ❸ Press the OPTION key.
- ❹ At the OPTION panel, SELECT the **edit playlist** button. The EDIT PLAYLIST MODE screen displays which allows you to edit the name of the playlist. You do not have to edit the name of the playlist in order to modify its members.
- ❺ Press the SELECT key to continue so that you can modify the tracks in the playlist.
- ❻ Cursor UP and DOWN to highlight the channels. A check mark indicates when a track is to be included in the playlist. Use the SELECT key to toggle between including or not including a track.
- ❼ Press the RECORD key to save this playlist and exit the OPTION mode.



To Delete a Music Playlist

- ❶ Press the GUIDE key. The MUSIC GUIDE screen appears.
- ❷ Use the ARROW keys to highlight the music playlist you want to delete.
- ❸ Press the OPTION key.
- ❹ At the OPTION panel, SELECT the **delete playlist** button to remove the currently active playlist. The DELETE PLAYLIST screen displays and shows the contents of the playlist.
- ❺ Press the RECORD key to delete the playlist and return to the previous Guide or Player view. A dialog message displays asking for confirmation before the playlist is deleted.



To Change How Music is Played

- ❶ Press the OPTION key.
- ❷ At the OPTION panel, SELECT the **play mode** option button. The PLAY MODE option screen displays
- ❸ Select the option of your choice from the available settings:
 - **normal** - Start with a selected track and play a CD or Playlist to its end and then stop.
 - **repeat track** - Keep playing the same track over and over again.
 - **repeat title** - Keep playing the current music collection (CD, or Playlist) from start to finish and then start over.
 - **repeat group** - Keep playing all the music collections in the current group of music from start to finish and then start over.
 - **random title** - Randomly select and play songs from the current music collection (CD, or Playlist)
 - **random group** - Randomly select and play songs from the current group of music.
- ❹ Press the SELECT key to continue.



To Edit Tracks

This option allows you to modify the track name for the currently selected title.

- ❶ Press the GUIDE key. The MUSIC GUIDE screen appears.
- ❷ Use the ARROW keys to highlight the track you want to edit.
- ❸ Press the OPTION key.
- ❹ At the OPTION panel, SELECT the **edit tracks** button. The EDIT TRACKS screen displays.
- ❺ Use the UP and DOWN ARROW keys to highlight the desired track, and press SELECT to display a text entry cursor in the edit field at the end of the track name.
- ❻ Enter a new track title/name.
- ❼ Press the RECORD key to accept the changes.



To Edit Disc Information

This option allows you to edit the music collection's information such as artist name, music collection title, label name, and year of release. Or, you can have TuneBase 200 look up the latest information from the OpenGlobe service.

Edit Disc also allows you to identify previously unidentified discs and get cover art.

- ❶ Press the GUIDE key. The MUSIC GUIDE screen appears.
- ❷ Use the ARROW keys to highlight the disc you want to edit.
- ❸ Press the OPTION key.
- ❹ At the OPTION panel, SELECT the **edit disc** button. The EDIT DISC INFO screen displays.
- ❺ Use the ARROW keys to move to the text field of your choice and edit the field.
- ❻ Or, SELECT the **lookup this disc** button to replace the current disc information. To save the new data, press the RECORD key.



To Search For Cover Art

This option allows you to view the current cover art and select an option to look up the cover.

- ① Press the GUIDE key. The MUSIC GUIDE screen appears.
- ② Use the ARROW keys to highlight the title of the disc cover art you want to edit.
- ③ Press the OPTION key.
- ④ At the OPTION panel, SELECT the **edit disc** button. The EDIT DISC INFO screen displays.
- ⑤ Use the ARROW keys to move to the **search for cover** button and press SELECT.
- ⑥ A “search for cover” confirmation dialog box appears. Press SEARCH to continue. If a new cover is not found, then the current cover remains. If a new cover is found, the resulting cover selection is displayed in the screen.
- ⑦ Press the RECORD key to save the data.



To Select Cover Art

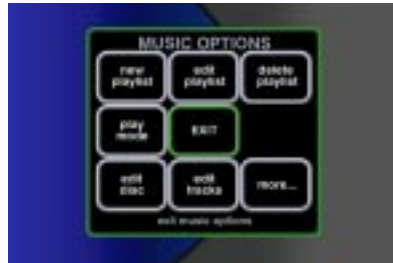
This option allows you to change the cover art for your current music selection.

- ❶ Press the GUIDE key. The MUSIC GUIDE screen appears.
- ❷ Use the ARROW keys to highlight the disc cover art you want to edit.
- ❸ Press the OPTION key.
- ❹ At the OPTION panel, SELECT the **edit disc** button. The EDIT DISC INFO screen displays.
- ❺ Use the ARROW keys to move to the **select cover** button and press SELECT. A SELECT COVER ART screen display that allows you to choose a new cover.
- ❻ Use the UP and DOWN ARROW keys to highlight an image and use the SELECT key to store the image.

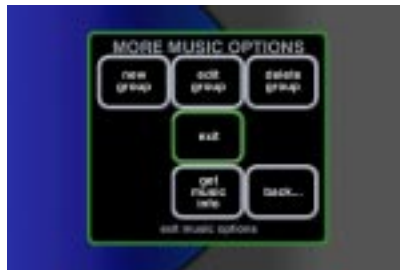


To Access “More...” Music Options

There are two screens of MUSIC OPTIONS. The first screen appears when you press the MUSIC key on your remote or keyboard followed by the OPTION key.



The second screen becomes available after SELECTING the “more...” button in the original MUSIC OPTIONS screen.



“**Button**” refers to a graphic item on the display screen.

“**Key**” refers to the push-down mechanisms on your remote or keyboard.



Use the ARROW keys to highlight the desired option and use the SELECT key to activate the desired option.

To Create a New Music Group

A group is a collection of content that classifies your music titles to make them easier to find. Genre groups such as All, Jazz, and Country are automatically generated depending upon the current music in your collection. The groups you create can be named whatever you want (i.e., My Favorites, Dad's Stuff, Background Music).

- ❶ Press the OPTION key. Use the ARROW keys to highlight the **more...** button on the displayed panel and press the SELECT key.
- ❷ At the MORE MUSIC OPTIONS panel, SELECT the **new group** button. A screen displays so that you can enter the name for the new group.
- ❸ After you have entered the new name, press SELECT to continue.
- ❹ When the group name is saved, the screen transitions to the EDIT MUSIC GROUP screen where you will select titles to be included in the new group. Cursor UP and DOWN to highlight the titles. A check mark indicates when a title is to be included in the group. Use the SELECT key to toggle between including or not including a title.
- ❺ Press the RECORD key to save the new group and exit the OPTION mode.



Music can reside in more than one group. For example, the same music could exist in the groups: All, Rock, Favorites, and Mine.



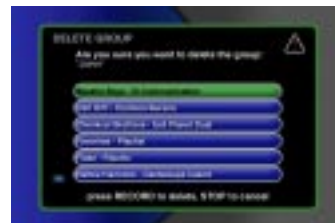
To Edit a Music Group

- 1 Press the GUIDE key. The MUSIC GUIDE screen appears.
- 2 Use the RIGHT and LEFT ARROW keys to highlight the group you want to edit.
- 3 Press the OPTION key. Use the ARROW keys to highlight the **more...** button on the displayed panel and press the SELECT key.
- 4 At the MORE MUSIC OPTIONS panel, SELECT the **edit group** button. The EDIT GROUP screen displays which allows you to edit the name of the group. You do not have to edit the name of the group in order to modify the members of the group.
- 5 Press the SELECT key to continue so that you can modify the titles in the group when the EDIT MUSIC GROUP screen displays.
- 6 Cursor UP and DOWN to highlight the titles. A check mark indicates when a title is to be included in the group. Use the SELECT key to toggle between including or not including a title.
- 7 Press the RECORD key to save this group and exit the OPTION mode.



To Delete a Music Group

- ❶ Press the GUIDE key. The MUSIC GUIDE screen appears.
- ❷ Use the RIGHT and LEFT ARROW keys to highlight the group you want to delete.
- ❸ Press the OPTION key. Use the ARROW keys to highlight the **more...** button on the displayed panel and press the SELECT key.
- ❹ At the MORE MUSIC OPTIONS panel, SELECT the **delete group** button to remove the currently active group. The DELETE GROUP screen displays and shows the contents of the group.
- ❺ A dialog message displays asking for confirmation before the group is deleted. Press the RECORD key to delete the group.



To Get Music Info

This option is only used to identify unknown titles or titles that never completed the original lookup process in Quick Start. Normally, new titles are identified automatically when they are inserted into an external changer. When this option is chosen, an information screen displays the number of changers attached, number of discs, free music slots, known discs, unknown discs, and cover art count. If you press SELECT to continue the Get Music Information operation, TuneBase 200 will automatically connect to the Internet if needed to lookup discs and will automatically disconnect as soon as the lookup is completed. You can terminate the connection at any time.

- ❶ Press the OPTION key. Use the ARROW keys to highlight the **more...** button on the displayed panel and press the SELECT key.
- ❷ At the MORE MUSIC OPTIONS panel, SELECT the **get music info** button. An information screen displays.
- ❸ If you press the SELECT key to continue, a connection dialog message displays showing the progress of the update from the OpenGlobe server. As each disc is recognized, the tracking screen displays the current cover art and title. When the process is complete, the internet connection is terminated.



Chapter 6 - Customizing TuneBase 200

Two Ways to Customize TuneBase 200
To Change User Information
To Change Internet Configuration Settings
To Change Preferences
To Access Changer Management Features
To Change Security Settings
To Access TuneBase 200 Utilities

6

Two Ways to Customize TuneBase 200

There are two methods of customizing TuneBase 200: through the OPTIONS menu or through the SETUP Menu. The OPTIONS menu is used to customize features which need frequent changing during the normal operation of the system, while the SETUP menu provides access to general user preferences.

Use the OPTIONS menu for:

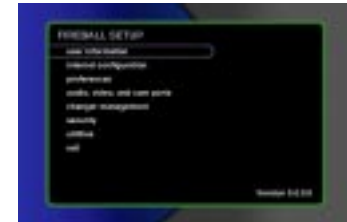
- Organizing access to content - managing groups, managing play lists, editing music information, and looking up music information.
- Adjusting player controls - play modes (random, repeat, etc.).

Use the SETUP Menu to change:

- user information
- internet configuration
- preferences
- audio, video, and com ports
- changer management
- security
- utilities



The OPTIONS menu is discussed in Chapter 5: Managing Music.



To Change User Information

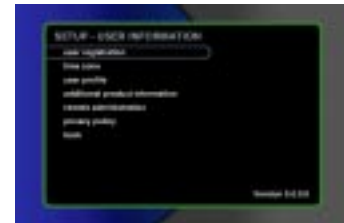
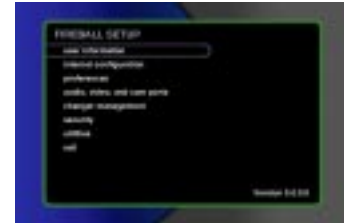
- 1 Press the SETUP key on the remote control or keyboard. The SETUP main menu displays.
- 2 Select the menu item **user information**. The menu displays.
- 3 Select the sub-menu item you want to modify and follow the instructions on the screen.

user registration - Allows you to input your name, address, phone number to identify you as the user.

time zone - This item is automatically configured during Quick Start. If you need to, you can manually change this.

user profile - If you want to receive information or services from OpenGlobe that caters to your particular age group or gender, you can fill in this menu.

additional product information - This item allows you to select whether or not you want to be informed regarding additional valuable services or support.



remote administration - Shows the User name and Password used to access the OpenGlobe enhanced services website.

privacy policy - Displays all of the legal disclaimers and warranty information for this product.

back - When you select this item, the screen goes back to the previous screen displayed.

4

Exit SETUP by selecting the EXIT menu item located at the bottom of the main menu, or by pressing the SETUP key when on the main menu or any sub-menu.



To Change Internet Configuration Settings

- ❶ Press the SETUP key on the remote control or keyboard. The TuneBase 200 SETUP main menu displays.
- ❷ Select the menu item **internet configuration**. The menu displays.
- ❸ Select the sub-menu item you want to modify and follow the instructions on the screen.

network connections - Specifies the Primary and Secondary network connections. The Primary connection is used for all Internet and OpenGlobe enhanced services such as disc lookups, purchasing, etc., and the Secondary connection is used for connecting to the optional Pipeline software. The Secondary connection may be different from the Primary connection.

dial-up settings - This item is originally configured in Quick Start but you can manually change it here for dial-up access PPP accounts. The password appears as visible text when the field is empty AND you enter the password. Once you leave the password field, the password field changes to hidden text. Subsequent returns to this screen will show the password as hidden text. Specific dialing options for your location can also be set here such as Dial-up Numbers and Dialing Prefix.



If you backspace at any point while in the password box, the entire password is erased.

primary tcp/ip settings - TCP/IP can be configured Dynamically or Manually. Dial-up connections only support dynamic IP configurations, so if the Primary network connection is set to “dial-up modem”, you will only be able to configure the name server fields. All others will be hidden. If the Primary network connection is the same as the Secondary network connection, changing these settings will effect both the Primary and Secondary network connections.

secondary tcp/ip settings - Secondary TCP/IP can be configured Dynamically or Manually. Use the NETWORK CONNECTIONS screen to enable a Secondary network connection”. All controls on this screen are hidden if the Secondary network connection is set to “none”. If the Primary network connection is the same as the Secondary network connection, changing these settings will effect both the Primary and Secondary network connections.

4

Exit SETUP by selecting the EXIT menu item located at the bottom of the main menu, or by pressing the SETUP key when on the main menu or any sub-menu.



Dial-up connections only support dynamic IP configurations.

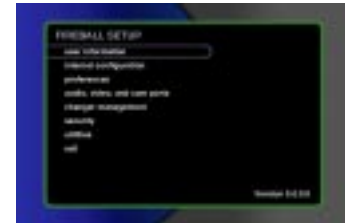
To Change Preferences

- ❶ Press the SETUP key on the remote control or keyboard. The SETUP main menu displays.
- ❷ Select the menu item **preferences**. The menu displays.
- ❸ Select the sub-menu item you want to modify and follow the instructions on the screen.

screen saver preferences - Specifies the number of minutes of inactivity allowed before the screen saver is activated. The default setting is 10 minutes. Selections you may choose from are 5, 10, 15, 30, or 60 minutes.

automatic update preferences - Once a week (available time frames include daytime 8am-4pm, evening 4pm-12am, or nighttime 12am-8am), TuneBase 200 automatically dials into the network server and downloads any software or database information that has been updated.

- ❹ Exit SETUP by selecting the EXIT menu item located at the bottom of the main menu, or by pressing the SETUP key when on the main menu or any sub-menu.



To Change Audio, Video, and Com Ports Settings

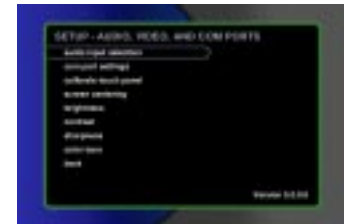
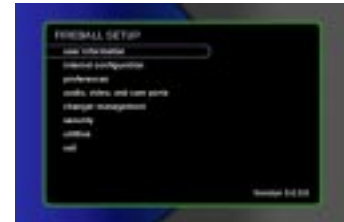
- ❶ Press the SETUP key on the remote control or keyboard. The SETUP main menu displays.
- ❷ Select the menu item **audio, video, and com ports**. The menu displays.
- ❸ Select the sub-menu item you want to modify and follow the instructions on the screen.

audio input selection - Specifies which devices are attached to which input connectors: optical or coaxial. All 6 audio sources can be used simultaneously.

com port settings - During the Quick Start setup, equipment attached to the communication ports were automatically detected. If you attach additional equipment or make changes to the communication ports, you will see the modifications.

calibrate touch panel - Allows the attached ETP-1000 Touch Panel display device to be calibrated.

screen centering - Adjusts the horizontal and vertical placement of the video output buffer so that the generated computer image is centered on your TV.



brightness - Provides a brightness test screen on your display so you can change settings through the controls on your display device.

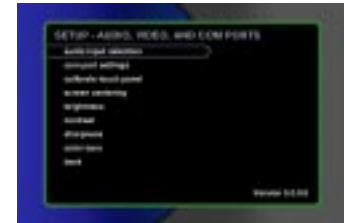
contrast - Provides a contrast test screen so you can use your display's contrast controls to help reduce video "blooming" while creating a clearer, more readable interface.

sharpness - Sets the sharpness or detail control of your TV so that onscreen text is as readable as possible.

color bars - Displays the SMPTE color bars. You may use this screen to test the display for color and tint accuracy.

4

Exit SETUP by selecting the EXIT menu item located at the bottom of the main menu, or by pressing the SETUP key when on the main menu or any sub-menu.

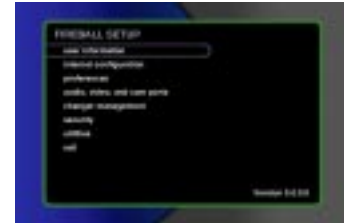


The UP, DOWN, LEFT, and RIGHT ARROW keys on the remote or keyboard are used to position the screen.

To Access Changer Management Features

- ❶ Press the SETUP key on the remote control or keyboard. The SETUP main menu displays.
- ❷ Select the menu item **changer management**. This section only appears in the Setup Menu if there are external changers attached.
- ❸ Select the sub-menu item you want to modify and follow the instructions on the screen.

quick lookup - Checks each previously empty slot in the changer(s) to see if any new discs were added, and then checks each previously occupied slot to see if any discs were removed. If the system detects that discs have been added to previously empty slots, the system will automatically read the TOC information from each disc. If discs have been previously recognized, the titles will reappear in the guide and all tracks will be available in appropriate Playlists. If the system detects that discs have been removed from slots in the changer, the database record for the disc will remain on the hard disc. The disc title will no longer appear in the guide in any group where it previously existed. Tracks from CD titles are no longer visible in Playlists where they were previously available. The Playlists will continue to work, but will not play or show the missing tracks. The tracks will be visible for editing in the Edit Playlist Option. You may press the STOP button to cancel the process.



lookup range - Prompts you to enter a range of disc from 1-400 and select one of the attached changer(s) and performs a detailed lookup on each disc until complete or until you press the STOP button to cancel the lookup.

lookup all - Looks up every disc in each changer. You may press the STOP button to cancel the process.

changer statistics - This item displays the statistics of the changer based media.

4

Exit SETUP by selecting the EXIT menu item located at the bottom of the main menu, or by pressing the SETUP key when on the main menu or any sub-menu.



To cancel any of the "Lookup" items while in progress, press the STOP button.

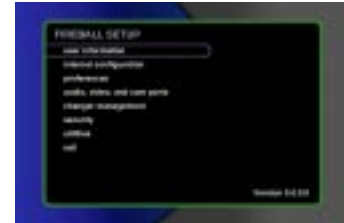
To Change Security Settings

- ❶ Press the SETUP key on the remote control or keyboard. The SETUP main menu displays.
- ❷ Select the menu item **security**. The menu displays.
- ❸ Select the sub-menu item you want to modify and follow the instructions on the screen.

password protection - Allows you to password protect access to the CE-Commerce features to limit the possibility of unauthorized purchases from your system. The same password is used for parental controls (content filters) and CE-Commerce access. Subsequent access to the password specification screen and setup will also be password protected.

If you specify a password, you will be prompted upon power ON to enter the password. If the password entered matches the stored password, full access is granted to you until the next power OFF cycle.

If the password does not match, you will be asked 2 more times to enter the correct password. If after the third try the password still does not match, you will not be allowed to use the system.



If you do not specify a system password, all content and all CE-Commerce features will be enabled. If security access is in place, restricted content will not be browseable, however you will have the opportunity to enter your password when attempting to access CE-Commerce features during normal operation in addition to power cycling. If successful password entry is granted, the CE-Commerce features remain enabled until the next power down.

The following information will be obtained:

1. Password (included legal notices about unauthorized purchases and content filtering)
2. Verification of Password

You are given the option of enabling password protection by entering a password and then verifying it. If you leave these fields blank, password protection will be disabled.

4

Exit SETUP by selecting the EXIT menu item located at the bottom of the main menu, or by pressing the SETUP key when on the main menu or any sub-menu.



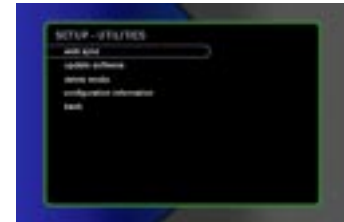
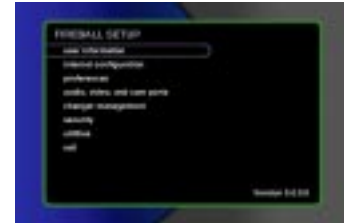
Access to restricted content will NOT be available when you enter a password during normal operation.

To Access TuneBase 200 Utilities

- ❶ Press the SETUP key on the remote control or keyboard. The SETUP main menu displays.
- ❷ Select the menu item **utilities**. The menu displays. (No other use of the system is permitted while one of the utility processes is running.)
- ❸ Select the menu item you want to access and follow the instructions on the screen.

web sync - Used to synchronize the database contents of TuneBase 200 with the OpenGlobe server.

update software - This feature initiates a manual connection to the OpenGlobe server to check for any software updates that are currently available. A confirmation dialog will ask if you really want to continue and look for an update because it will take some time. If an update is found, you will be asked if you want to download the update. If you accept, the system will begin the software update process. A progress status bar appears so that you can estimate download time.



configuration information - Restores the TuneBase 200 system to its original factory settings. This allows you to completely erase all user preferences and settings and reconfigure the unit for the first time. Since this is a destructive feature, two levels of confirmation dialogs are used to confirm that you really want to do this. Once the feature is initiated, you will not be able to stop the process.

④

Exit SETUP by selecting the EXIT menu item located at the bottom of the main menu, or by pressing the SETUP key when on the main menu or any sub-menu.



While using any of the SETUP UTILITIES, no other use of the system will be permitted.

Chapter 7 - Escient Touch Panel Overview

Touch Panel Interaction



Touch Panel Interaction

When you initially setup TuneBase 200, you will need to use the remote or wireless keyboard to navigate through the automatic setup program called Quick Start. **Once you have gone through this setup, you will be able to calibrate TB-200 and use the Touch Panel.** (See the side note on this page for calibration info.)

There are a couple of differences between the guides and player screens that appear when using the Touch Panel device.

The Guide screen looks like this when no Touch Panel is in use.



The Player screen looks like this when no Touch Panel is in use.



If the Touch Panel does not seem to be centered or is otherwise not working, please use the remote or keyboard and press the SETUP key to go to the SETUP menu, **audio video and com ports, calibrate touch panel.**

Use the arrow keys to select the option "calibrate touch panel" and follow the instructions on the screen.

When an Escient Touch Panel is detected and powered on or the SETUP option for an external control system's XY coordinates is set, the Touch Panel buttons will appear on the Guide screen and the Player screen.

On the Guide screen a row of buttons appears on the right of the music content to let you play or stop your music. The page up and page down buttons allow you to scroll the guide one page at a time.



Toggles through the 3 available guide button bars:

1. styles bar
2. remote control button bar
3. alpha-numeric bar

play
stop
record (not available)
all
page up
page down



The default bar is the style bar. The styles automatically navigate to the left and right when the leftmost or rightmost style is selected if there are more styles to view.

Pressing the toggle button once will change the view from the styles bar to the alpha-numeric bar. This bar lets you enter a letter or number to jump down to the music selection that begins with that letter. Pressing a letter will display the pressed letter in the on screen display area located between the two smoked glass windows at the top of the guide.



alpha-numeric
bar



Pressing the toggle button again will change the view from the alpha-numeric bar to the remote control button bar.

This bar includes a player button to get to the player screen, previous track, next track, pause to round out the transport functions, a view button to toggle through Artist, Title, and Song views, an option button to bring up the music or radio option screens, a favs button to play your favorites Playlist, a random button to randomly play music, and an OpenGlobe button to enhance your music experience by allowing you to view more information about your music and to purchase items through a secure link.



remote control
button bar



Pressing the toggle button when in the remote control button mode advances to the alpha-numeric bar. Pressing the toggle button again replaces the bar back to the styles button bar. The style button bar is always displayed when returning to the guide screen from the player screen.

Selecting music to play or selecting the player button on the remote control button bar will present the Player screen. The Player screen appears with a toggle button when a Touch Panel is in use. The transport button bar is displayed when the toggle button is pressed again.



ETP-1000 Touch Panel

The remote control button bar is displayed when the toggle button is pressed again.

remote control button bar



Pressing the guide button will take you back to the guide screen. The mode button will toggle through the available play modes. The add button will add the current song to your favorites play list. The setup button will bring up the setup screen. Pressing the toggle button again will return to the title view that is displayed by default each time you enter the player screen. Pressing the Info button on the screen or on the remote will cause the artist name and artist bar to hide while the detailed track information is displayed. Pressing the info button again will hide the detailed track information and show the artist name and artist bar again.



ETP-1000 Touch Panel

Appendix A - Cable Pin-Out Configurations

Pin Configurations for RS-232 Cables to CD Changers
Pin configurations for RS-232 Cables to Control Systems



Pin Configurations for RS-232 Cables to CD Changers

TuneBase 200 to Kenwood - CD PLAYER

TuneBase 200 (DB9-Female)		CD Player (DB9-Male)	
Pin	Function	Pin	Function
2	RD	3	TD
3	TD	2	RD
5	GND	5	GND

Standard RS-232 Nulled Cable.

TuneBase 200 to Pioneer and Onkyo - CD PLAYER

TuneBase 200 (DB9-Female)		CD Player (DB15-Male)	
Pin	Function	Pin	Function
5	GND	1	GND
2	RD	2	TD
3	TD	3	RD



RS-232 cable between TuneBase 200 and CD Player must be 25 feet or less.



With future releases of TuneBase 200 software, many more CD changers and controllers will be supported. (This particular manual may not reflect the additionally supported equipment.) Please check the Escient website for the latest updates regarding RS-232 cable configurations.

Pin Configurations for RS-232 Cables to Control Systems

TuneBase 200 to AMX / Crestron / PHAST

TuneBase 200
(DB9-Female)

Pin	Function
2	RD
3	TD
5	GND

AMX/Crestron/PHAST
(DB9-Female)

Pin	Function
3	TD
2	RD
5	GND



RS-232 cable between TuneBase 200 and Control System must be 25 feet or less.



With future releases of TuneBase 200 software, many more CD changers and controllers will be supported. (This particular manual may not reflect the additionally supported equipment.) Please check the Escient website for the latest updates regarding RS-232 cable configurations.

Appendix B - TuneBase 200 Technical Specs

**Video
Dimensions
Audio Specifications
Power Usage and Power Supply
3rd Party Certifications
Telephone Regulations
FCC Part 15, Subpart B**



Video

- NTSC
- 10 bit Video DACs
- Frequency Response:
- Composite: -2 dB @ 5MHz
- S-Video: -2 dB @ 5MHz
- SNR: 50 dB
- Crosstalk: 50 dB
- Input Impedance: 75Ohm
- Output Impedance: 75Ohm

Dimensions

Width: ~ 17 3/8"

Height: ~ 4 5/8" w/ feet; ~ 4' w/o feet

Depth: ~ 11 7/8"; Installed 14 3/8"



Audio Specifications

- Frequency Response: 2 – 20,000 Hz, ± 1 dB
- THD+N (playback) < -80 dB FS A (< 0.01%)
- THD+N (record) < -90 dB FS A (< 0.0032)
- A_D-DSP-D-A Dynamic Range: > 96 dB FS A @ 1kHz
- Channel Separation: > 95 dB
- Full Scale Line Output: > 2 Vrms, 50 k ohms
- Full Scale Line Input: > 2.5 Vrms
- S/PDIF Output:
- Power Requirements: AC 90-132 VAC, 50-60 Hz
- Power Consumption: < 60 watts



Power Usage and Power Supply

- Open frame 60 Watt Supply
- Support for holding Power button for 4 seconds to force reset
- Full Power Off may be accomplished by removing the power cord from the wall power outlet
- Discrete Suspend (Sleep)/Resume (WakeUp) commands
- Automatic Restore in the event of Power Loss
- UL/CUL recognized power supply

3rd Party Certifications

FCC: US Part 15, Class B

NTSC Video Output: NTSC RS-170A

cETL Listing

Part 68

Conforms to: UL STD 6500-2000

Certified to: CAN/CSA STD E60065-00



Telephone Regulations

(1) This equipment complies with Part 68 of the FCC Rules. On the back panel of this equipment is a label that contains, among other information, the FCC registration number and Ringer Equivalence Number (REN) for this equipment. If requested, provide this information to your telephone company.

(2) The registration jack USOC for the equipment is (RJ11C).

(3) An FCC compliant telephone cord and modular plug is provided with this equipment. This equipment is designed to be connected to the telephone network or premises wiring using a compatible modular jack which is Part 68 compliant. See installation instructions for details.

(4) The REN is useful to determine the quantity of devices that may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of RENs of all devices should not exceed five (5). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.

(5) If your telephone equipment (**Tunebase 200**) causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, you will be notified as soon as possible. You will be advised of your right to file a complaint with the FCC if you believe it is necessary.

(6) Your telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of your equipment. If they do, you will be given advance notice so as to give you an opportunity to maintain uninterrupted service.

(7) If you experience trouble with this equipment, (**Tunebase 200**) please contact (**Escent Convergence Corporation Technical Support @ 800.372.4368**) for repair/warranty information. If your equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

(8) This equipment may not be used on public coin service provided by the telephone company. Connection to party lines is subject to state tariffs. (Contact your state public utility commission or corporation commission for information.)

(9) There are no customer serviceable repairs that can be made.



FCC Part 15, Subpart B

Class B

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio TV technician for help.
- Shielded cables must be used with this unit to ensure compliance with the Class B FCC limits.



Appendix C - Minor Troubleshooting

Minor Troubleshooting Tips



Minor Troubleshooting Tips

Following are some easily resolved problems you may encounter during the installation of your TuneBase 200 unit. If you are experiencing difficulties that do not appear in the following list, please contact your dealer or call Escient.

No Power

TuneBase 200 may be plugged into an unswitched receptacle.

Power: but no video

Make sure TuneBase 200 is connected to the video source (television) before you power on TuneBase 200. Make sure that the LED next to the Power button is not blinking.

Following is the Power ON/Standby sequence.

- After the TuneBase 200 unit is plugged in, an LED located next to the power button will flash - this flashing indicates the unit is starting the application. When it is finished flashing, the LED will turn OFF. This means TuneBase 200 is now in a standby or “sleep” mode. You can now press the Power button (on the front panel or on the remote) once and the display will appear immediately.
- To change from the ON mode back to the standby or “sleep” mode, press the Power button on the front panel or on the remote once.
- To reset the TuneBase 200 unit, PRESS and HOLD the Power button for more than 4 seconds and release. The Power LED light will blink before turning OFF. When the light is OFF, you can press the Power button on the front panel or on the remote.



Cannot connect to Internet using the dial-up modem

- Verify that an active phone line is connected to the line jack on the modem.
- Clear voice mail on your phone before attempting to connect--a solid dial tone is needed.
- Check to see if the phone system has a prefix such as a #9. If it does, go to SETUP, INTERNET CONFIGURATIONS, DIAL-UP SETTINGS--to add a prefix.

Discs are identified, but do not have covers

- The internet server TuneBase 200 uses for cover searches may be temporarily down.
- The covers may not be available for your particular discs.
- You can edit the disc information to try and obtain cover art. See Chapter 5.

Remote LED does not blink when you press a key.

Replace the batteries with two (2) new AA alkaline batteries.

Remote LED blinks when you press a key, but home entertainment component does not respond

- Make sure the Remote is aimed at your home entertainment component and is not farther than 15 feet away.
- Check that the correct mode is selected (Press TB for TuneBase 200.)

Remote does not control home entertainment components or commands are not working properly

Try all listed codes for the component brands being set up. Make sure they can be operated with an infrared remote control.



Appendix D - External Control Protocol

Commands and Responses Overview
Unsolicited Status Events
Remote/Keyboard Commands
Database Commands
Status Commands
Control Commands



Commands and Responses Overview

This appendix describes the external control protocol commands and responses which allow an external control system to navigate the Escient products, get library information to build custom user interfaces, perform transport controls, and receive unsolicited feedback on system status. ESCX is the four letter preamble that is used for all commands. This preamble must be uppercase. The protocol is based on standard ASCII.

All external control commands are made up of the preamble (ESCX), command group (01,02,10,20,50,70), sub command (specific task), specific data (# of data items and a size of data packet, then the actual data packet repeated for the # of data items), and a carriage return end marker.

External Control Command Structure

DESCRIPTION	PREAMBLE	COMMAND GROUP	SUB COMMAND	# DATA ITEMS	DATA ITEM #1 SIZE	DATA #1	DATA ITEM #2 SIZE	DATA #2	END MARKER
Bytes	4	5	2	3	4	5	4	3	1
Example	ESCX	01	08	002	0005	Hello	0003	Bye	Carriage Return



Command Groups

The external control commands are broken down into the following Command Groups:

- 01 – Command Responses
- 02 – Unsolicited Events
- 10 – Remote Button / Keyboard Commands
- 20 – Database Commands
- 50 – Status Commands
- 70 – Control Commands

All commands will cause one of the following response numbers to be issued. Some commands, such as database commands, will also send back additional responses that contain more detailed information.

Command Responses

COMMAND GROUP	RESPONSE NUMBER	RESPONSE DESCRIPTION
01	01	OK
	02	Bad Command Structure
	03	Empty Library or Bad Range
	04	Wrong Number or Command Arguments
	05	Invalid Subcommand
	06	Invalid Command
	07	Command not available during Power Standby
	08	Requested data not available
	09	External control command not yet implemented (future)

Response Format: ESCX01xx, where xx = Command response



Unsolicited Status Events

Unsolicited status events will be sent to report the state changes of the Escient products. If you wish to turn off unsolicited events, you can unregister for them using the ESCX7003 command. See the control commands section for instructions on how to register and unregister for unsolicited status events. By default, unsolicited status events are sent.

COMMAND GROUP	EVENT NUMBER	EVENT DESCRIPTION
02	01	Power status changed. When the system has booted into an off state you will receive a "RDY" status indicating it is ready to be powered on and from then on an "OFF" or an "ON" status.
		<i>Event Format:</i> ESCX02010010003xxx, Where xxx = a 3 character string "RDY" = when power is first applied and it boots into the off state (standby mode) – ready for power on. "ON" = if power on turned on (GUI appears) "OFF" = if power is off (standby mode) (Video out off)
	02	Play Mode changed (normal, random, etc) (future implementation)
		<i>Event Format:</i> ESCX0202, Where 02 = means the database has changed
	03	Guide View changed
		<i>Event Format:</i> ESCX02030010002xx Where xx = the new guide view 01 = Guide changed to Artist view CD titles are displayed sorted by artist name 02 = Guide changed to Titles view CD titles are displayed sorted by CD title 03 = Guide changed to Song view Song titles are displayed sorted by song title



COMMAND GROUP	EVENT NUMBER	EVENT DESCRIPTION
	04	Playing Artist/Title/Song has changed [future implementation]
		<p><i>Event Format:</i> ES CX0204006002aa0003bbbccccdddeeefffgggghhhiiijjj aa = the play state (01 = Play, 02 = Stop, 03 = Pause) bbb = current track number [future implementation] cccc = length of artist name ddd = artist name eeee = length of title name fff = title name gggg = length of track name hhh = track name [future implementation] iiii = length of current track time data jjj = current track time The current track, artist name, title name, track name, and current track time are only returned for the play event. The stop and pause events just signify that the state has changed.</p>
	05	Guide Mode changed (Playlist edit mode, Record mode, Delete mode, etc.) [future implementation]
	06	Screen Mode changed (Guide, Player, Options, Setup, etc.) [future implementation]
	07	Database has changed. The external control system should re-read the library information. [future implementation]

Unsolicited Status Events Continued

Remote/Keyboard Commands

The Remote/Keyboard commands are used when the video output of the TuneBase 200 system is displayed on a TV or large screen projector and it is desired to directly select the TuneBase 200 control functions through an external control system.

The up, down, left, right, and select functions can be used to navigate objects on the screen and select them. The active TuneBase 200 control function is highlighted and the selection cursor is moved over it.

Various other commands are used to mimic the operation of the remote control. Note that the command response will be “OK” as long as the key code is a valid one, even though the system may ignore the key if the system is in a mode where the key would not normally be processed. The exception to this is when power is in “standby”, where all keys except for the “Power Toggle” or “Power On” command will return a response of “not available during Power Standby”.



COMMAND GROUP	SUB COMMAND NUMBER	COMMAND DESCRIPTION
10	01	Left
	02	Up
	03	Right
	04	Down
	05	Enter
	06	Move To X and Y Coordinates and Select The upper left point on the screen is (0,0) and the resolution of the screen is 720 by 480 pixels.
	07	Power Toggle
	08	Power On
	09	Power Off
	10	"0"
	11	"1"
	12	"2"
	13	"3"

Remote/Keyboard Commands Continued

COMMAND GROUPS	SUB COMMAND NUMBER	COMMAND DESCRIPTION
10	14	"4"
	15	"5"
	16	"6"
	17	"7"
	18	"8"
	19	"9"
	20	"~"
	21	"."
	22	"f"
	23	"`"
	24	"?"
	25	"@"
	26	"_"
	27	" "
	28	"*"
	29	"#"

Remote/Keyboard Commands Continued

COMMAND GROUP	SUB COMMAND NUMBER	COMMAND DESCRIPTION
10	30	Ch/Page +
	31	Ch/Page -
	32	Mode Increment – Only works in Player
	33	Mode Play – Normal – Only works in Player
	34	Mode Play – Repeat Track – Only works in Player
	35	Mode Play – Repeat Title – Only works in Player
	36	Mode Play – Repeat Group – Only works in Player
	37	Mode Play – Random Title – Only works in Player
	38	Mode Play – Random Group – Only works in Player
	39	Setup
	40	Option
	41	Guide (toggles between Guide and Player)**
	42	Guide Explicit (always goes to Guide)**
	43	Player Explicit (always goes to Player)**
	44	OpenGlobe
	45	Info
	46	Menu (DVD Menu and Guide View Increment)
	47	Guide View – Covers
	48	Guide View – Artist

Remote/Keyboard Commands Continued

** This command does not function if the Option screen, OpenGlobe CE-Commerce screen, or Playlist Edit screens are displayed.

10	49	Guide View – Title
	50	Guide View - Song
	54	Play
	55	Stop
	56	Pause
	57	Previous Track
	58	Next Track
	59	Record
	61	Music
	63	Title
	64	Angle
	65	Resume
	66	Next [future implementation]
	67	Add Favorites
	68	Play Favorites

Remote/Keyboard Commands Continued

COMMAND GROUPS	SUB COMMAND NUMBER	COMMAND DESCRIPTION
10	69	Random [future implementation]
	70	Blank [future implementation]
	71	Blank [future implementation]
	74	"A"
	75	"B"
	76	"C"
	77	"D"
	78	"E"
	79	"F"
	80	"G"
	81	"H"
	82	"I"
	83	"J"
	84	"K"

Remote/Keyboard Commands Continued

COMMAND GROUPS	SUB COMMAND NUMBER	COMMAND DESCRIPTION
10	85	"L"
	86	"M"
	87	"N"
	88	"O"
	89	"P"
	90	"Q"
	91	"R"
	92	"S"
	93	"T"
	94	"U"
	95	"V"
	96	"W"
	97	"X"
	98	"Y"
	99	"Z"

Remote/Keyboard Commands Continued

Command format = ESCX10xx

04 – ESCX1004

05 – ESCX1005

06 – ESCX10060020003aaa0003bbb

aaa = X coordinate

bbb = Y coordinate

10 – ESCX1010

20 – ESCX1020

21 – ESCX1021

22 – ESCX1022

etc...

Database Commands

All the Database commands are available regardless of the power state, except for Command 05, Play, which will return an error response if attempted during standby. The groups, styles, and custom genres are grouped into system groups and user groups. The system groups have system groupings such as the All group and Playlists groups. The user groups contain the genres for your music and your custom genres that have been created. Titles are returned listed in alphabetical order by title regardless of the state of the user interface.

COMMAND GROUP	SUB COMMAND	DESCRIPTION
20	01	Get number of groups (genres) in the database
		<p>ESCX20010010002xx</p> <p>xx = which list to get groups from, where 01 = System Music Groups 02 = User Music Groups</p> <p><i>Reply Format:</i> ESCX20010010004xxxx, Where xxxx = total number of groups in the specified list</p> <p>Once the total number of groups is known, you can ask information for a range of groups using the 02 subcommand</p>



COMMAND GROUP	SUB COMMAND	DESCRIPTION
	02	Get group information
		<p>ESCX20020030002aa0004bbbb0004cccc</p> <p>aa = which list to get groups from, where 01 = System Music Groups 02 = User Music Groups</p> <p>bbbb = starting group number cccc = ending group number</p> <p><i>Reply Format:</i> ESCX2002xxxGROUP1GROUP2etc..., Where xxx = total number of groups multiplied by 2, Each group is made up two items so</p> <p>GROUP1 above = 0003xxxyyyyzzzzzzz where 0003 = length of item #1 (always 3) xxx = number of titles in the group yyyy = length of item #2 (length of group name) zzzzzzz = group name (length depends on yyyy)</p> <p>GROUP2, etc... have the same format as GROUP1</p>

Database Commands Continued

COMMAND GROUP	SUB COMMAND	DESCRIPTION
20	03	Get title music information (includes Playlists because they are virtual CD titles)
		<p>ESCX20030040002aa0004bbbb0004cccc0004dddd</p> <p>aa = which list to get groups from, where 01 = System Music Groups 02 = User Music Groups</p> <p>bbbb = group number to get titles for cccc = starting title number dddd = ending title number</p> <p><i>Reply Format:</i> ESCX2003xxxTITLE1TITLE2etc..., Where xxx = total number of titles multiplied by 2, Each title is made up of two items so</p> <p>TITLE1 above = 0003xxxyyyyzzzzzzzz 0003 = length of item #1 (always 3) xxx = number of tracks in the title yyyy = length of item #2 (length of title) zzzzzzzz = title(length depends on yyyy)</p> <p>TITLE2, etc... have the same format as TITLE1</p>

Database Commands Continued

COMMAND GROUP	SUB COMMAND	DESCRIPTION
	04	Get track information
		<p>ESCX20040050002aa0004b0004cccc0004d0004eeee</p> <p>aa = which list to get groups from, where 01 = System Music Groups 02 = User Music Groups</p> <p>b000 = group number to get tracks for cccc = title number to get tracks for d000 = starting track number eeee = ending track number</p> <p><i>Reply Format:</i> ESCX2004xxxTRACK1TRACK2etc..., Where xxx = total number of tracks, Each TRACK is made of one item so</p> <p>TRACK1 = b000zzzzz yyyy = length of track name zzzzz = track name (length depends on yyyy)</p> <p>TRACK2, etc... have the same format as TRACK1</p>
	05	Play music track/Playlist
		<p>ESCX20050040002aa0004b0004cccc0004d0004</p> <p>aa = which database to get groups from, where 01 = System Music Groups 02 = User Music Groups</p> <p>b000 = group number cccc = title d000 = track number</p>

Database Commands Continued

COMMAND GROUP	SUB COMMAND	DESCRIPTION
20	06	Get group number for a specific music by name. Remember that strings have to be exact matches including case.
		<p>ESCX20060020002aa0004bbbb</p> <p>aa = which list to get groups from, where 01 = System Music Groups 02 = User Music Groups</p> <p>bbbb = which group you want the number for 0004 is the length of the group name 01 - System Music group name examples are: All, Playlists, CDs, MP3s 02 -User Music group name examples are: Blues/Folk Classical Country Dance Easy Listening Family HipHop-Rap Jazz Latin New Age Other Pop R&B/Soul Rock Soundtracks</p> <p><i>Reply Format: ESCX20060010004xxxx,</i> Where xxxx = group number for the group specified by aaaa Once group number is known, use the 02 subcommand for info.</p>

Database Commands Continued

20	07	<p>Get title music information by name (includes Playlists also, because they are virtual CD titles). Remember that strings have to be exact matches including case.</p> <p>ESCX20070030002aa0004bbbb0004cccc aa = which list to get groups from, where 01 = System Music Groups 02 = User Music Groups bbbb = group number to get titles for cccc = which title/Playlist you want the number for 0004 is the length of the title/Playlist name</p> <p><i>Reply Format:</i> ESCX2007xxxTITLE1TITLE2etc..., Where xxx = total number of titles/Playlists that match Multiplied by 2, each title is made up of two items so</p> <p>TITLE1 above = 0003xxx0004yyyy 0003 = length of item #1 (always 3) xxx = number of tracks in the title/Playlist 0004 = length of item #2 (always 4) zzzz = title/Playlist number</p> <p>Most likely only one title will be returned for this command, however if you have duplicate titles, TITLE2, etc... have the same format as TITLE1</p> <p>Once the title/Playlist number and the number of tracks are known you can use the 04 – Get track information command or the 05 – Play music track/Playlist command.</p>
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Database Commands Continued

Status Commands

COMMAND GROUP	SUB COMMAND	DESCRIPTION
50	01	Get power state
		ESCX5002 Reply Format: ESCX50010010003xxx, Where xxx = a 3 character string "ON" if power is on. "OFF" if power is off.
	02	Get music play mode
		ESCX5002 Reply Format: ESCX50020010002xx, Where xx = music play mode, where 01 = normal 02 = repeat track 03 = repeat title 04 = repeat group 05 = random title 06 = random group
	03	Get sort order [future implementation]
		ESCX5003 Reply Format: ESCX50030010002xx, Where xx = guide sort order, where 01 = by artist 02 = by title 03 = by song



COMMAND GROUP	SUB COMMAND	DESCRIPTION
50	04	Get current playing artist, title, song [future implementation]
		ESCX5004 Reply Format: ESCX5004003 aaaa bb cccc dd eeee ff , where aaaa = length of the artist name that is playing bb = artist name – length depends on aaaa cccc = length of the title that is playing dd = music title – length of the song depends on cccc eeee = length of the song that is playing ff = song title – length depends on eeee
	05	Get current screen that is displayed in the GUI [future implementation]
		ESCX5005 Reply Format: ESCX50050010002 xx , Where xx = current GUI screen, where 01 = guide 02 = player 03 = options 04 = configuration

Status Commands Continued

Control Commands

Control commands are available only when power is ON. An error will be returned if a control command is attempted during power off (standby).

COMMAND GROUP	SUB COMMAND	DESCRIPTION
70	01	Select guide source ESCX70010010002xx xx = guide source, where 01 = Music
	02	Register for unsolicited events (by default you are registered to receive the unsolicited events) ESCX7002
	03	Unregister for unsolicited events (prevent unsolicited events) ESCX7003
	04	Set Music Play Mode ESCX70040010002xx xx = music play mode, where 01 = normal 02 = repeat track 03 = repeat title 04 = repeat group 05 = random title 06 = random group



Appendix E - TuneBase 200 Internet Connections

When Does TuneBase 200 Connect To Internet?



When Does TuneBase 200 Connect To Internet?

TuneBase 200 is designed to automatically connect and disconnect from the Internet as needed. The following is a list describing when Internet connections occur:

Quick Start:

During the initial quick start process – an Internet connection status dialog and progress indicator are provided to show the status of the connection. The connection can be terminated manually by pressing STOP or the connection will automatically stop as soon as the Setup information is exchanged.

CD Lookup:

Each time a CD Player door is opened and closed & a new disc is found, TuneBase 200 will automatically connect to the OpenGlobe server in order to retrieve disc information and cover art. The status of the connection and the status of the information retrieval is displayed in the lower left portion of the Music Player screen. The Internet connection will automatically terminate 2.5 minutes after the information and cover art is retrieved unless another disc is inserted or another activity that requires Internet connectivity is selected. The Internet connection can be manually terminated by pressing STOP.

Power Loss:

When Power is lost and then restored, TuneBase 200 automatically dials out and retrieves the correct time. You can terminate the connection at any time by pressing STOP.



Music Option – Get Music Info:

If this Option is selected, TuneBase 200 will show an information screen that shows the number of changers attached, number of discs, free music slots, known discs, unknown discs, and cover art count. If you press 'select' to continue the Get Music operation, TuneBase 200 will automatically connect to the Internet if needed to lookup discs and will automatically disconnect as soon as the lookup is completed. A progress screen is displayed during this operation. You can terminate the connection at any time by pressing STOP.

Music Option - Edit Disc – Lookup This Disc:

If this Option is selected, TuneBase 200 will automatically connect to the Internet to lookup the selected disc and will automatically disconnect as soon as the lookup is completed. A progress screen is displayed during this operation. You can terminate the connection at any time by pressing STOP.

OpenGlobe CE-Commerce:

Each time you press the OpenGlobe button on the remote or IR Keyboard, an Internet connection is automatically established with the OpenGlobe service – unless a connection had previously been established. The connection can be terminated manually by pressing STOP.



Weekly Updates:

TuneBase 200 automatically connects to the OpenGlobe servers each week to retrieve new content, look for software updates, and to report system status. This connection occurs even if TuneBase 200 is turned off. A progress screen is provided in case TuneBase 200 is turned on. The connection terminates immediately after completing communications with the OpenGlobe servers. You can also terminate the connection at any time by pressing STOP. (The frequency of weekly updates can be modified through the SETUP menu.)

If for some reason you want to disable these updates, physically disconnect the dial-up connection. (This is NOT recommended.)



Appendix F - Enhanced Entertainment Services

Enhanced Entertainment Services Through OpenGlobe



Enhanced Entertainment Services Through OpenGlobe

OpenGlobe is a website and series of links geared to help you find more content or information relative to your music on TuneBase 200.

For example, while listening to a CD or reviewing the Music guide, you can press the OpenGlobe key on your remote or keyboard and immediately jump to an OpenGlobe page on the Internet that contains a list of the week's top CD's in your favorite categories. Or, you might want to access the latest information on a favorite artist and see what their musical influences have been.

As OpenGlobe evolves and new services are featured, you will be able to take advantage of the latest OpenGlobe offerings to enhance your music listening experience. It's likely that you will be able to purchase CDs and download them instead of having to wait for them in the mail.

As new OpenGlobe services, new peripherals, ISPs, applications, and user interface software are developed, TuneBase 200 will access the updated software via the Internet and provide you with the most current services and software. (Software is downloaded to your system during regularly scheduled connections.)



If there is no user input (cursor movement, scrolling, etc.) within 5 minutes after connecting to the Internet while in the OpenGlobe environment, then TuneBase 200 will disconnect from the Internet.



Appendix G - Home Networking

**What is Home Networking?
Single TuneBase 200 on a Network**

A large, white, serif capital letter 'G' is centered within a dark gray rectangular box. The box is positioned on the right side of the page, below the header and to the right of the main title.

What is Home Networking?

A network is a group of computers, printers, and other devices that are cabled together in specific ways so that information can be exchanged and shared with each other. Just as you can connect two computers to share files or use the same connection to the Internet, you can connect TuneBase 200(s) to a home network so that you can share the same connection to the Internet.

Home networks are relatively easy to set up and installation tutorials are readily available on the Internet. Basically there are three kinds of home networks: Ethernet, HomePNA, and wireless Ethernet. [Each of these home networking standards require a board or adapter installed on your PC(s), associated software, and cables to connect.]

In an Ethernet configuration, Ethernet network interface boards are installed on your PC(s) and Ethernet cables are used to connect all equipment. In order to connect TuneBase 200 to an Ethernet home network, you will need to acquire a USB to Ethernet Adapter.

In a HomePNA network, an HPNA card or adapter is attached to the PC(s), and telephone wiring from these adapters is connected to your home's telephone wiring through wall phone jacks. TuneBase 200 has a built-in HPNA connector, so you will simply use telephone wire to connect TuneBase 200 to a phone jack and incorporate it into the home network.

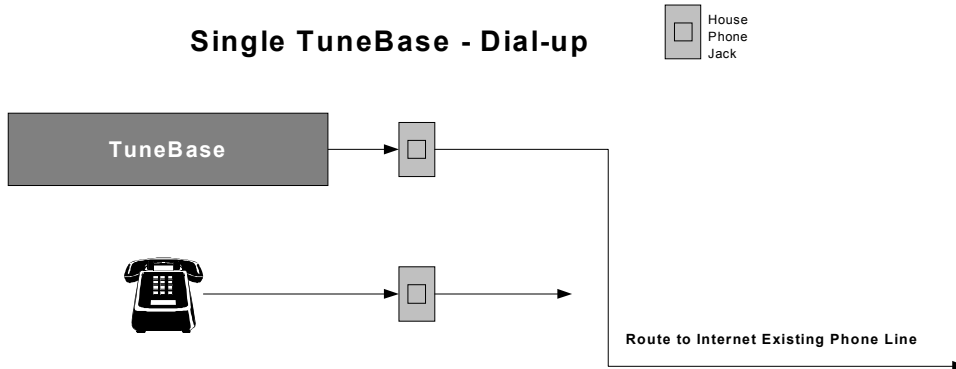


Each homenetworking standard (Ethernet, HomePNA, and wireless Ethernet) require a board or adapter installed on your PC(s), associated software, and cables to connect.

Setup Diagrams - Single TuneBase 200 on a Network

If you have a single TuneBase 200, attaching a TuneBase 200 to your home network is strictly done for the purpose of sharing access to the internet through one connection: a dial up, an HPNA network, or an Ethernet connection. Diagrams for each of these scenarios follows:

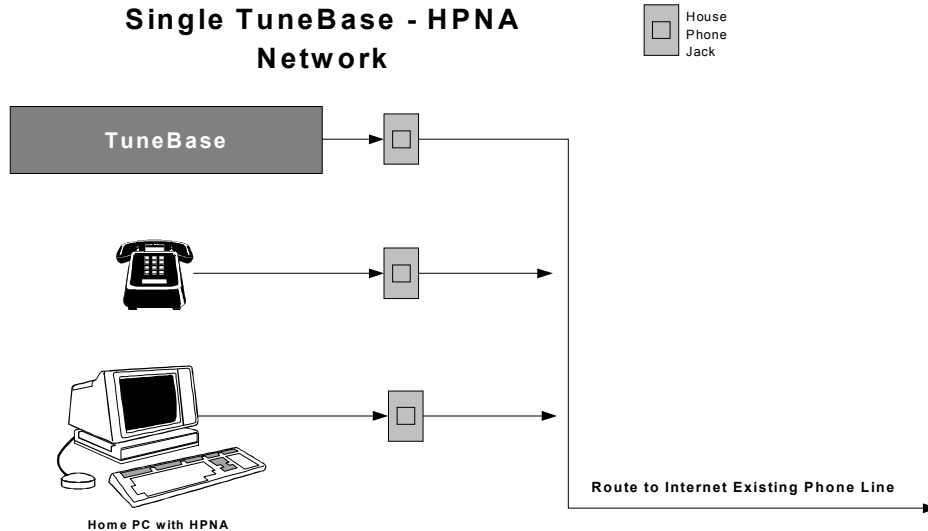
Single TuneBase - Dial-up



This manual provides basic setup diagrams for integrating a TuneBase 200(s) into a home network.

For additional configurations or advanced setups, please check the Escient website at www.escientconvergence.com.

Single TuneBase - HPNA Network



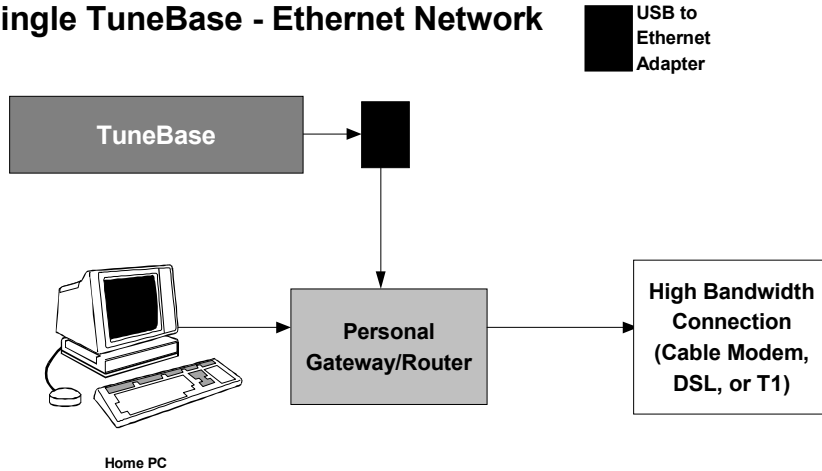
HPNA, also referred to as HomePNA, is a home networking standard developed by the Home Phoneline Networking Alliance.



HPNA phone cable lengths:

- Minimum length (from first TuneBase 200 to the next TuneBase 200 or to an Ethernet Adapter = 6 feet minimum).
- Maximum length (from first TuneBase 200 to last TuneBase 200 - include the wiring within the house which may be configured in a star-like pattern that returns to origin = 500 feet maximum).

Single TuneBase - Ethernet Network



Note that TuneBase 200 requires a USB to Ethernet Adapter in order to connect to an Ethernet network.

Appendix H - Remote Overview

Text Entry Via the TuneBase 200 Remote Control
Installing Batteries Into Remote
Programming the Remote
Programming TV/VCR Combo
Searching for Your Code
Checking the Codes
Re-Assigning Device Keys
Changing Volume Lock
Other Manufacturer's IR Codes



Identifying the Remote Keys

The TuneBase 200 IR remote is a Universal remote control with capabilities to other Escient products, as well as 5 other common home theater sources.

SOURCE KEYS - puts the remote into each of the following modes:

AUX - all others

CBL - cable convertors

DVD - DVD player (VCR=DVD on remote)

TV - television

FB - FireBall (no SAT) - no substitute

TB - TuneBase 200 (no CD) - no substitute

PP - Future

RCV - receivers or stereo tuners (TNR=RCV on remote)

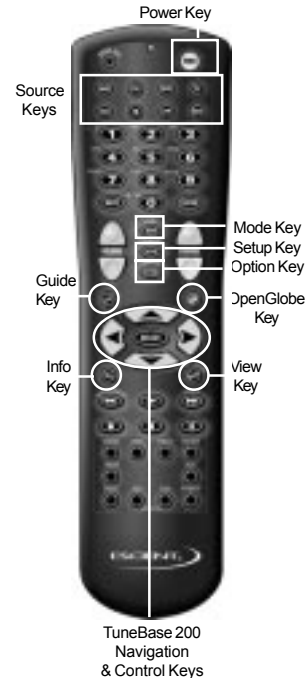
GUIDE - toggles between the Guide and Player screen.

INFO - used to toggle the type of details you see on your screen. For instance, if you're in player mode the cover art would be replaced with track time estimates. This is also used to toggle "select all tracks/select no tracks" under the current title when you are in Create/Edit Playlist mode, and Create/Edit Group mode.

POWER - operates on the currently selected source and turns the unit to standby.

MODE - toggles through the different play modes.

SETUP - shows TuneBase 200's setup menu for making global preference changes.

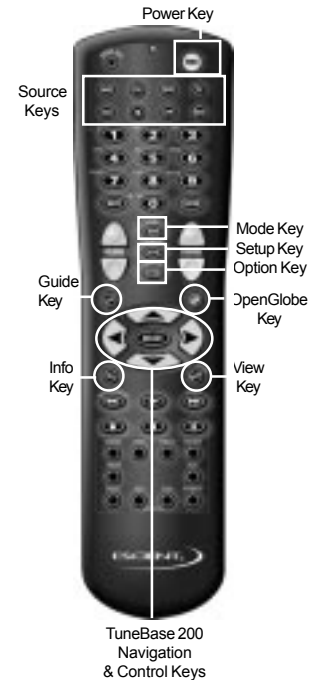


OPTION - brings up the OPTIONS screen for the current Guide or Player you are on.

OPENGLOBE - takes you to the CE-Commerce screens to allow you to browse and purchase additional titles based on your preferences.

VIEW - toggles the Guide screen through Artist, Music, and Song views.

Navigation Keys - the **UP**, **DOWN**, **LEFT**, and **RIGHT ARROW** keys are used to navigate and highlight items, while the **SELECT** key is used to accept the item(s).



NUMERIC/TEXT keypad - allows you to enter text and numbers. Both text and numbers are active at all times unless only numeric data can be accepted at that time. An on-screen indicator will show you when only numeric data will be accepted. Text entry is described later in this section.

VOLUME - turns the volume up or down for the current source.

CH PAGE - UP and **DOWN** keys are used to page full screens in the Guide or Player.

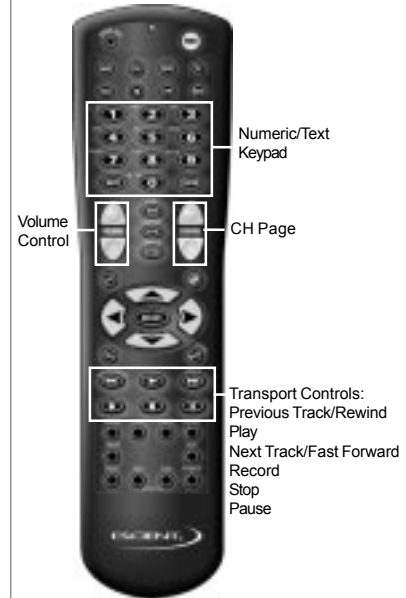
TRANSPORT Controls:



The **BACKSPACE** key operates as a standard Previous Track key when it is pressed once by starting the current track over. Pressing the key again while in the first couple of seconds of a track will go to the previous track on the music collection. Pressing and holding this key will perform a fast backwards skip and you will hear the music as it progresses back in time. This key is also used as the Backspace key when entering text in a text box such as on the registration screen. Finally this key can also be used as the back button when browsing the OpenGlobe CE-Commerce opportunities.



The **PLAY** key causes the currently highlighted item in the Guide or the Player to be played. This key is also used to erase all text within a field when the cursor is within an editable text field.





The **SPACE** key operates as a standard Next Track key when it is pressed by advancing to the start of the next track. Pressing and holding this key will perform a fast forward skip and you will hear the music as it progresses forward in time. This key is also used as the Space key when entering text in a text box such as on the registration screen. Finally this key can also be used as the Forward key when browsing the OpenGlobe CE-Commerce opportunities.



The **RECORD** key is used as a Save button to commit changes made on many screens throughout TuneBase 200.



The **STOP** key is used to stop music that is currently playing. This key also acts as the STOP loading pages button when browsing the OpenGlobe CE-Commerce opportunities.



The **PAUSE** key is used to pause music that is currently playing.



Transport Controls:
Previous Track/Rewind
Play
Next Track/Fast Forward
Record
Stop
Pause

NEXT - allows you to skip past the current selection that is playing and allow TuneBase 200 to continue to the next song it would normally play based on the mode.

RANDOM - allows one key access to start playing your music randomly.

ADD TO FAVORITES - adds the currently highlighted item to the special Playlist called “favorites”.

PLAY FAVORITES - allows one key access to play your favorite music. Plays the “favorites” Playlist.



Text Entry Via the TuneBase 200 Remote Control

The remote control can be used to enter text in all text fields. This text entry capability is provided to allow you to fill out short text fields – such as those that occur in the setup and edit screens. TuneBase 200's IR keyboard should be used when extended typing is required.

Entering Numeric Entry Mode

In fields where TuneBase 200 expects only numeric characters to be entered (such as phone numbers or CE-commerce/security passwords), an indicator will appear on the screen that displays the letters “123” indicating that only numbers can be entered.

Typing Characters with the Remote

The remote control based text entry capability is similar to that provided on standard telephones and cell phones. Each numeric key has characters associated with it that can be accessed by pressing the key one or more times. You have .5 seconds after a key is pressed to enter a second character from the same key. If you press the same key within .5 seconds, the second character associated with that key replaces the initial character. If you do not press the same key within .5 seconds, the text cursor moves to the next location so that the same key can be pressed again to enter a second character.



Text entry is always in the Insert Mode rather than in Overtyping mode.

The “2”, “3”, “4”, “5”, “6”, and “8” keys each support three letters and one number and can be pressed from one to seven times to display upper case, lower case, and numeric characters. The “7” and “9” keys both support four letters and one number and can be pressed from one to nine times. The “1” and “0” keys support four special characters and one number and can be pressed from one to five times.

The text characters follow the same convention used by a standard telephone – except in the case of the “1” and “0” keys which contain additional characters that are useful for editing music information.

When entering characters at the beginning of a field or characters that follow a space, TuneBase 200 assumes that upper case characters are preferred. Therefore, characters are entered in the following cycle – uppercase, lowercase, and numeric. For example, the first key press enters an uppercase letter corresponding to the first letter associated with the key. Pressing the “2” key once displays an “A” in the text field, pressing the “2” key twice displays a “B”, pressing it again will display a “C”. The fourth key press displays a lower case “a”, the fifth key press displays a lower case “b”, and the sixth key press displays a lower case “c”. Lastly, pressing the “2” key a seventh time displays the number “2”.

When entering the second character in a text field or the second character following a space, TuneBase 200 assumes that lower case is preferred and the character entry cycles in the following pattern – lowercase, uppercase, and numeric.



The following text entry table describes the sequence of characters that appear when specific keys are pressed on the remote:

Numeric Key	Alpha-numeric Mode 1st character or 1st character after a space	Alpha-numeric Mode 2nd character or 2nd character after a space
1	. / , ? ' : ; & 1	. / , ? ' : ; & 1
2	ABCabc2	abcABC2
3	DEFdef3	defDEF3
4	GHIghi4	ghiGHI4
5	JKLjkl5	jklJKL5
6	MNOmno6	mnoMNO6
7	PQRSpqrs7	pqrsPQRS7
8	TUVtuv8	tuvTUV8
9	WXYZwxyz9	wxyzWXYZ9
0	@ _ - * # [] () 0	@ _ - * # [] () 0

Navigating within a text entry box using the remote:

- Backspace over text – Backspace key
- Delete text – Play key (clears all text input in the current Edit Field)
- Insert a space in text – Space key
- Cursor left within a text field – Left arrow key
- Cursor right within a text field – Right arrow key

To exit a text entry box:

- Press the Enter or Select key to accept the text and move the text cursor to the to the next available text field or to highlight the next available non-text field.
- Press the up or down cursor key to move the highlight to the next available field.
- Press the RECORD key (if in an Option screen) to save the text and exit the screen.

Installing Batteries Into Remote

1. On the back of the Remote, push the tab and lift off the battery cover.
2. Obtain two (2) fully-charged AA alkaline batteries. Match the + and – marks on the batteries to the + and – marks in the battery case, then insert the new batteries.
3. Press the battery cover back into place. The tab should click when the cover is locked.
4. Test the unit by pressing PWR and any mode key (e.g., AUX, CBL, DVD, or RCV). If the batteries are inserted correctly, the LED will blink once.

Programming the Remote

The Remote can control up to 8 different components. Note that 3 of these are already used for TuneBase 200, TuneBase 200, and PowerPlay. (For TV/VCR Combo control, see the next section.) Perform the following instructions for each component you want controlled:

1. Turn on a component (e.g., VCR) and, if applicable, insert media, (e.g., cassette or disc). NOTE: Please read steps 2-4 completely before proceeding. We recommend highlighting or writing down the codes and device you wish to program before moving onto step 2.
2. On the Remote, press a component key once (i.e., AUX, CBL, DVD, TV, RCV). Press and hold SETUP until the LED blinks twice, then release SETUP.
3. Use the Manufacturer's Codes (last section in this appendix) to locate the type of component and brand name and then enter the first four-digit code for your component. If performed correctly, the LED will blink twice.



When batteries need replacement, the Remote will blink twice with every key press. Simply replace them and the remote control will be restored to its full functionality, including favorite settings.

If the LED did not blink twice, then repeat steps 2 through 3 and try entering the same code again.

4. Aim the Remote at the component and press PWR once. It should turn off. If it does not respond, repeat steps 2-3, trying each code for your brand until you find one that works. If the device does not have a PWR key, press PLAY.
5. Repeat steps 1 through 4 for each component you want the Remote to control.

Programming TV/VCR Combo

1. Turn on the TV/VCR Combo and insert a video cassette. NOTE: Please read steps 2-4 completely before proceeding. We recommend highlighting or writing down the code for the brand you wish to program before moving onto step 2.
2. On the Remote, press DVD. Press and hold SETUP until the LED blinks twice, then release SETUP.
3. Use the Setup Codes For TV/VCR Combos (last section in this appendix) to locate the brand name and then enter the first four-digit code for your component. If performed correctly, the LED will blink twice. NOTE: If the LED did not blink twice, then repeat steps 2 through 3 and try entering the same code again.
4. Aim the Remote at the component and press PWR once. It should turn off. If it does not respond, repeat steps 2-3, trying each code for your brand until you find one that works. If it still does not work, try searching for the code (see Searching For Your Code). NOTE: If the device does not have a PWR key, press PLAY.
5. If you've located a setup code that works, but it has a separate TV code, you'll also need to program it into the Remote to access volume control as follows:



- a. Press TV once. The LED will blink twice.
- b. Enter the TV code for your TV/VCR Combo. If correct, the LED will blink twice.

If there is no separate TV code listed, you will need to perform the following steps to access volume control:

- a. Press and hold SETUP until the LED blinks twice, then release SETUP.
- b. Enter 9 - 9 - 3 . The LED will blink twice.
- c. Press DVD once. The LED will blink twice.

Searching for Your Code

If your device does not respond to the Remote after trying all codes listed for your brand, or if your brand is not listed at all, try searching for your code. For example, to search for a code for your TV:

1. On the Remote, press TV once.
2. Press and hold SETUP until the LED blinks twice, then release SETUP.
3. Enter 9 - 9 - 1. The LED will blink twice.
4. Aim the remote control at the TV and slowly alternate between pressing PWR and TV. Stop when the TV turns off. NOTE: In the search mode, the Remote will send IR codes from its library to the selected device, starting with the most popular code first.
5. Press SETUP once to lock in the code.
6. To search for the codes of your other components, repeat steps 1 through 5, but



substitute the appropriate key (i.e., AUX, CBL, DVD, RCV) for the (Auxiliary, VCR, Cable, Satellite, CD, Amplifier, or Tuner) component you are searching for.

Checking the Codes

If you have set up the Remote using the Searching For Your Code procedure, you may need to find out which four-digit code is operating your equipment.

For example, to find out which code is operating your TV:

1. On the Remote, press TV once.
2. Press and hold SETUP until the LED blinks twice, then release SETUP.
3. Enter 9 - 9 - 0. The LED will blink twice.
4. To view the code for the first digit, press 1 once. Wait 3 seconds, count the LED blinks (e.g., 3 blinks = 3) NOTE: If a code digit is "0", the LED will not blink.
5. Repeat step 4 three more times for remaining digits. Use 2 for the second digit, 3 for the third digit, and 4 for the fourth digit.
6. To check for the codes of your other components, repeat steps 1 through 5, but substitute the appropriate key (i.e., AUX, CBL, DVD, RCV) component you are checking. As before, write down each four-digit code.



Re-Assigning Device Keys

The Remote can be set up to control a second TV or VCR, or any combination of eight home entertainment components. For example, to have the Remote control a TV, a Cable Converter, and two VCRs, you will need to reassign the unused AUX key to operate the second VCR as follows:

1. On the Remote, press and hold SETUP until the LED blinks twice, then release SETUP.
2. Enter 9 - 9 - 2. The LED will blink twice.
3. Press DVD once, then press AUX once.
4. The AUX key is now ready to be programmed for your VCR. See Programming Component Control. To reassign other device keys, repeat steps 1 through 4 by substituting the key sequence from the below chart for the most popular components:

To Re-Assign Key Sequence

TV as VCR key:
 TV as 2nd CBL key:
 TV as 2nd AUX key:
 TV as 2nd RCV/TNR key:
 TV as AMP key:
 TV as CD key:
 TV as SAT key:
 TV back to TV:

Perform

SETUP - 9 - 9 - 2 - DVD - TV
 SETUP - 9 - 9 - 2 - CBL - TV
 SETUP - 9 - 9 - 2 - AUX - TV
 SETUP - 9 - 9 - 2 - RCV - TV
 SETUP - 9 - 9 - 2 - PP - TV
 SETUP - 9 - 9 - 2 - TB - TV
 SETUP - 9 - 9 - 2 - FB - TV
 SETUP - 9 - 9 - 2 - TV - TV



You cannot re-assign the FB, TB, or PP keys.

However, the keys can be used in conjunction to re-assigning other device keys.

To Re-Assign Key Sequence

DVD as 2nd TV key:

DVD as 2nd CBL key:

DVD as 2nd AUX key:

DVD as 2nd RCV/TNR key:

DVD as AMP key:

DVD as CD key:

DVD as SAT key:

DVD back to DVD/VCR:

AUX as 2nd TV key:

AUX as 2nd DVD/VCR key:

AUX as 2nd CBL key:

AUX as 2nd RCV/TNR key:

AUX as AMP key:

AUX as CD key:

AUX as SAT key:

AUX back to AUX:

Perform

SETUP - 9 - 9 - 2 - TV - DVD

SETUP - 9 - 9 - 2 - CBL - DVD

SETUP - 9 - 9 - 2 - AUX - DVD

SETUP - 9 - 9 - 2 - RCV - DVD

SETUP - 9 - 9 - 2 - PP - DVD

SETUP - 9 - 9 - 2 - TB - DVD

SETUP - 9 - 9 - 2 - FB - DVD

SETUP - 9 - 9 - 2 - DVD - DVD

SETUP - 9 - 9 - 2 - TV - AUX

SETUP - 9 - 9 - 2 - DVD - AUX

SETUP - 9 - 9 - 2 - CBL - AUX

SETUP - 9 - 9 - 2 - RCV - AUX

SETUP - 9 - 9 - 2 - PP - AUX

SETUP - 9 - 9 - 2 - TB - AUX

SETUP - 9 - 9 - 2 - FB - AUX

SETUP - 9 - 9 - 2 - AUX - AUX

When a reassignment is done, the LED will blink twice to confirm your choice. At that time, you will need to program the Remote to control the new component (see Programming Component Control).



Changing Volume Lock

The Remote is set to control volume of a component through your TV while in the TV, VCR, Cable, or Satellite mode. However, in an Audio mode (i.e. RCV/TNR; AMP, CD), you have separate control of your audio component's volume.

If your TV is not remote controllable, or if you want volume to be controlled by a different component, you can change the Volume Lock setting to control a volume through a non-associated mode (e.g., through the cable in the TV mode).

To change Volume Lock to another mode:

1. On the Remote, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.
2. Enter 9 - 9 - 3 and then press any mode key once (except TV). The LED will blink twice.
3. Now, whenever you press **VOL +**, **VOL -**, or **MUTE**, volume will be controlled by your mode choice.

To change Volume Lock back to the TV mode:

1. On the Remote, press and hold **SETUP** until the LED blinks twice, then release **SETUP**.
2. Enter 9 - 9 - 3 and then press **TV**. The LED will blink twice.
3. Now, whenever you press **VOL +**, **VOL -**, or **MUTE** on the Remote, volume will be controlled by your TV.



Other Manufacturer's IR Codes

Setup Codes for TVs: (Press TV)

AOC 0030, 0019
Admiral 0093, 0463
Aiko 0092
Akai 0030
Aaron 0179
Ambassador 0177
America Action 0180
Ampro 0751
Anam 0180
Audiovox 0451, 0180, 0092, 0623
Baysonic 0180
Belcor 0019
Bell & Howell 0154, 0016
Bradford 0180
Brockwood 0019
Broksonic 0236, 0463
CXC 0180
Candle 0030, 0056
Carnivale 0030
Carver 0054
Celebrity 0000
Cineral 0451, 0092
Citizen 0060, 0030, 0056, 0039, 0092
Concerto 0056
Contec 0180
Craig 0180
Crosley 0054
Crown 0180, 0039
Curtis Mathes 0047, 0054, 0154, 0051, 0451, 0093, 0060, 0030, 0145, 0056, 0016, 0039,

Daytron 0019
Denon 0145
Dumont 0017, 0019
Dwin 0720, 0774
Electroband 0000
Emerson 0154, 0236, 0463, 0180, 0282, 0178, 0019, 0179, 0039, 0177, 0623, 0624
Envision 0030
Fisher 0154
Fujitsu 0179
Funai 0180, 0179, 0171
Futuretech 0180
GE 0047, 0051, 0451, 0093, 0282, 0178, 0021, 0135, 1147, 1347
Gibraltar 0017, 0030, 0019
GoldStar 0030, 0178, 0019, 0056
Gradiente 0053, 0056
Grunpy 0180, 0179
Hallmark 0178
Harley Davidson 0179
Harman/Kardon 0054
Harvard 0180
Hitachi 0145, 0056, 0151
Infinity 0054
Inteq 0017
JBL 0054
JCB 0000
JVC 0053
KEC 0180
KTV 0180, 0030, 0039
Kenwood 0030, 0019
LG 0056
LXI 0047, 0054, 0154, 0156, 0178
Logik 0016
Luxman 0056
MGA 0150, 0030, 0178, 0019
MTC 0060, 0030, 0019, 0056
Magnavox 0054, 0030, 0179
Majestic 0016
Marantz 0054, 0030

0166, 0466, 1147, 1347
Daewoo 0451, 0019, 0039, 0092, 0623, 0624
Matsushita 0250
Megatron 0178, 0145
Memorex 0154, 0250, 0463, 0150, 0178, 0056, 0016
Midland 0047, 0017, 0051, 0039, 0135
Minutz 0021
Mitsubishi 0093, 0150, 0178, 0019
Motorola 0093
Multitech 0180
NAD 0156, 0178, 0166
NEC 0030, 0019, 0056
NTC 0092
Nikko 0030, 0178, 0092
Onwa 0180
Optimus 0154, 0250, 0166
Optonica 0093, 0165
Orion 0236, 0463, 0179
Panasonic 0051, 0250
Penney 0047, 0156, 0051, 0060, 0030, 0178, 0021, 0019, 0056, 0039, 0135, 1347
Philco 0054, 0463, 0030, 0145, 0019
Philips 0054
Pilot 0030, 0019, 0039
Pioneer 0166
Portland 0019, 0039, 0092
Prism 0051
Proscan 0047
Proton 0178, 0466
Pulsar 0017, 0019
Quasar 0051, 0250, 0165
RCA 0047, 0051, 0093, 0019, 0090, 0135, 1047, 1147, 1247, 1347
Radio Shack 0047, 0154, 0165, 0180, 0030, 0178, 0019, 0056, 0039
Realistic 0154, 0165, 0180, 0030, 0178, 0019,

0056, 0039
Runco 0017, 0030, 0603
SSS 0180, 0019
Sampo 0030, 0039
Samsung 0060, 0030, 0178, 0019, 0056
Samsux 0039
Sansei 0451
Sansui 0463
Sanyo 0154
Scimitsu 0019
Scotch 0178
Scott 0236, 0180, 0178, 0019, 0179
Sears 0047, 0054, 0154, 0156, 0178, 0179, 0056, 0171
Semivox 0180
Semp 0156
Sharp 0093, 0165, 0039
Shogun 0019
Signature 0016
Sony 0000
Soundesign 180, 0178, 0179
Squareview 0171
Starlite 0180
Supreme 0000
Sylvania 0054, 0030
Symphonic 0171
TMK 0178, 0056, 0177
Tandy 0093
Technics 0051, 0250
Technol Ace 0179
Techwood 0051, 0056
Teknika 0054, 0180, 0150, 0060, 0019, 0179, 0056, 0016, 0039, 0092
Telefunken 0056
Toshiba 0154, 0156, 0060
Totevision 0039
Vector Research 0030
Victor 0053
Vidikron 0054
Vidtech 0178, 0019

Wards 0054, 0165, 0030, 0178, 0021,
0019,
0179, 0056, 0016
White Westinghouse 0463, 0623, 0624
Yamaha 0030, 0019
Zenith 0017, 0463, 0016, 0092

Setup Codes for VCRs: (Press DVD)

Admiral 0048, 0209
Adventura 0000
Aiko 0278
Aiwa 0037, 0000
Akai 0041
America Action 0278
American High 0035
Asha 0240
Audiovox 0037
Beaumarck 0240
Bell & Howell 0104
Broksonic 0209
Broksonic 0184, 0121, 0209, 0002
CCE 0072, 0278
Calix 0037
Canon 0035
Carver 0081
Cineral 0278
Citizen 0037, 0278
Colt 0072
Craig 0037, 0047, 0240, 0072, 0271
Curtis Mathes 0060, 0035, 0041, 0162
Cybernet 0240
Daewoo 0045, 0278
Denon 0042
Dynatech 0000
Electrohome 0037
Electrohome 0037
Emerex 0032
Emerson 0037, 0184, 0000, 0121, 0043,
0209,
0002, 0278

Fisher 0047, 0104
Fuji 0035, 0033
Funai 0000
GE 0060, 0035, 0048, 0240
Garrard 0000
Go Video 0526
GoldStar 0037, 0038
Gradiente 0000
HI-Q 0047
Harley Davidson 0000
Harman/Kardon 0081, 0038
Harwood 0072
Headquarter 0046
Hitachi 0000, 0042, 0041
Hughes Net. Sys. 0042
JVC 0067, 0041
Jensen 0041
KEC 0037, 0278
KLH 0072
Kenwood 0067, 0041, 0038
Kodak 0035, 0037
LXI 0037
Lloyd's 0000
Logik 0072
MEI 0035
MGA 0240, 0043
MGN Technology 0240
MTC 0240, 0000
Magnasonic 0278
Magnavox 0035, 0039, 0081, 0000, 0149
Magnin 0240
Marantz 0035, 0081
Marta 0037
Matsushita 0035, 0162, 0454
Memorex 0035, 0037, 0048, 0039, 0047,
0240,
0000, 0104, 0209, 0046, 1162, 1262
Minolta 0042
Mitsubishi 0048, 0067, 0043
Motorola 0035, 0048

Multitech 0000, 0072
NEC 0104, 0067, 0041, 0038
Nikko 0037
Noblex 0240
Olympus 0035
Optimus 0037, 0048, 0104, 0162, 0454, 1062,
1162, 1262
Orion 0184, 0209, 0002
Panasonic 0035, 0162, 0225, 0454, 1162
Penney 0035, 0037, 0240, 0042, 0038
Pentax 0042
Philco 0035, 0209
Philips 0035, 0081
Pilot 0037
Pioneer 0067
Profitronic 0240
Proscan 0060
Protec 0072
Pulsar 0039
Quarter 0046
Quartz 0046
Quasar 0035, 0162, 0454, 1162
RCA 0060, 0035, 0048, 0240, 0042, 0149
Radio Shack 0000
Radix 0037
Randex 0037
Realistic 0035, 0037, 0048, 0047, 0000, 0104,
0046
Runco 0039
STS 0042
Samsung 0240, 0045
Sanky 0048, 0039
Sansui 0000, 0067, 0209, 0041, 0271
Sanyo 0047, 0240, 0104, 0046
Scott 0184, 0045, 0121, 0043
Sears 0035, 0037, 0047, 0000, 0042, 0104,
0046
Semp 0045
Sharp 0048
Shintom 0072

Shogun 0240
Singer 0072
Sony 0035, 0032, 0000, 0033
Sylvania 0035, 0081, 0000, 0043
Symphonic 0000
TMK 0240
Tatung 0041
Teac 0000, 0041
Technics 0035, 0162
Teknika 0035, 0037, 0000
Thomas 0000
Toshiba 0045, 0043
Totevision 0037, 0240
Unitech 0240
Vector 0045
Vector Research 0038
Video Concepts 0045
Videosonic 0240
Wards 0060, 0035, 0048, 0047, 0081, 0240,
0000, 0042, 0072, 0149
White Westinghouse 0209, 0278
XR-1000 0035, 0000, 0072
Yamaha 0038
Zenith 0039, 0000, 0209, 0033

Setup Codes for TV/VCR Combos: (Press DVD)

American High 0035 (for TV use 0051)
Broksonic 0002, 0294,
Colt 0072
Curtis Mathis 0035 (for TV use 0051)
Daewoo 0278
Emerson 0002, 0294, 0479
Funai 0000
GE 0035 (for TV use 0051),
0060 (for TV use 0047),
0048 (for TV use 0093), 0240
Hitachi 0035 (for TV use 0051), 0000
HQ 0000
Lloyds 0000

MGA 0240
 Magnavox 0081 (for TV use 0054),
 0035 (for TV use 0051), 0000
 Magnin 0240
 Memorex 0037, 0162 (for TV use
 0250)
 Mitsubishi 0048 (for TV use 0093)
 Orion 0002, 0294, 0479
 Panasonic 0035 (for TV use 0051),
 0162 (for TV use 0250)
 Penney 0035 (for TV use 0051),
 0240,
 0162 (for TV use 0250)
 Quasar 0035 (for TV use 0051),
 0162 (for TV use 0250)
 RCA 0060 (for TV use 0047),
 0035 (for TV use 0051),
 0048 (for TV use 0093)
 Sansui 0000, 0479
 Sanyo 0240
 Sears 0000, 0037
 Sharp 0048 (for TV use 0093)
 Sony 0032 (for TV use 0000)
 Symphonic 0000
 Zenith 0000

**Setup Codes for Cable
 Converters: (Press CBL)**
 ABC 0003,0008, 0014, 0017, 0007,
 0011,
 0013
 Allegro 0153, 0315
 Archer 0153, 0797
 Bell & Howell 0014
 Century 0153
 Citizen 0153, 0315
 Comtronics 0040
 Contec 0019
 Eastern 0002
 Emerson 0797

Everquest 0015,0040
 Focus 0400
 Garrard 0153
 Gemini 0015
 General Instrument 0476, 0276, 0011, 0810
 GoldStar 0144, 0040
 Goodmind 0797
 Hamlin 0020, 0259, 0009, 0034
 Hitachi 0011
 Hytex 0007
 Jasco 0015, 0153, 0315
 Jerrold 0003, 0012, 0476, 0276, 0014, 0015,
 0011, 0810
 Memorex 0000
 Movie Time 0063
 NSC 0063
 Oak 0019, 0007
 Optimus 0021
 Panasonic 0000, 0107, 0021
 Paragon 0000
 Philips 0153
 Pioneer 0144, 0533
 Popular Mechanics 0400
 Pulsar 0000
 Quasar 0000
 RCA 0021
 Radio Shack 0015, 0315, 0797, 0883
 Recoton 0400
 Regal 0020, 0259
 Regency 0002
 Rembrandt 0011
 Runco 0000
 SL Marx 0040
 Samsung 0144, 0040
 Scientific Atlanta 0008, 0477, 0017, 0877
 Signal 0015,0040
 Signature 0011
 Sprucer 0021
 Starcom 0003, 0015
 Stargate 0015, 0040, 0797

Starquest 0015
 TV86 0063
 Teleview 0040
 Tocom 0012, 0013
 Toshiba 0000
 Tusa 0015
 Unika 0153
 United Artists 0007
 Universal 0153, 0191
 Viewstar 0063
 Zenith 0000, 0525
 Zentek 0400

**Setup Codes for Satellite or
 DBS Receivers:
 (Press re-assigned key)**

AlphaStar 0772
 Chaparral 0216
 Echostar 0775
 Expressvu 0775
 General Instrument 0627, 0361, 0869
 HTS 0775
 Hitachi 0819
 Hughes Net. Sys. 0749
 JVC 0775
 Jerrold 0627, 0361
 Magnavox 0724, 0722
 Memorex 0724
 Next Level 0869
 Panasonic 0701
 Philips 0724, 0722
 Primostar 0627, 0361
 RCA 0566, 0143, 0392, 0855
 Radio Shack 0869
 Realistic 0052
 Sony 0639
 Star Choice 0869
 Toshiba 0790
 Uniden 0724, 0722, 0052
 Zenith 0856

**Setup Codes for CD Players:
 (Press re-assigned key)**

Aiwa 0157, 0124
 Burmester 0420
 California Audio Lab 0029
 Carver 0157, 0179, 0437
 DKK 0000
 Denon 0003, 0873
 Emerson 0305
 Fisher 0179,0174
 Garrard 0420, 0393
 Genexxa 0032, 0305
 Harman/Kardon 0157, 0173
 Hitachi 0032
 JVC 0072
 Kenwood 0028, 0037, 0190, 0681, 0826
 Krell 0157
 LXI 0305
 Linn 0157
 MCS 0029
 MTC 0420
 Magnavox 0157, 0305
 Marantz 0029, 0157, 0180
 Mission 0157
 NSM 0157
 Nikko 0174
 Onkyo 0101, 0868
 Optimus 0000, 0032, 0179, 0305, 0037, 0420,
 0145, 0468, 0437
 Panasonic 0029, 0303
 Parasound 0420
 Philips 0157, 0626
 Pioneer 0032, 0305, 0468, 0244
 Proton 0157
 QED 0157
 Quasar 0029
 RCA 0179, 0305, 0053, 0764
 Realistic 0179, 0420, 0180
 Rotel 0157, 0420

SAE 0157
 Sansui 0157, 0305
 Sanyo 0179
 Scott 0305
 Sears 0305
 Sharp 0037, 0180, 0861
 Sherwood 0180
 Sony 0000, 0185, 0490
 Soundesign 0145
 Tascam 0420
 Teac 0420, 0393, 0174, 0180
 Technics 0029, 0303
 Victor 0072
 Wards 0157, 0053
 Yamaha 0036, 0187
 Yorx 0461

Setup Codes for DVD Players: (Press DVD)

Harman/Kardon 0582
 JVC 0558
 Kenwood 0534
 Magnavox 0503
 Mitsubishi 0521
 Onkyo 0503
 Panasonic 0490
 Philips 0503, 0539
 Pioneer 0525, 0571
 Proscan 0522
 RCA 0522
 Samsung 0573
 Sony 0533
 Technics 0490
 Theta Digital 0571
 Toshiba 0503
 Yamaha 0490, 0545
 Zenith 0503, 0591

Setup Codes for LD Players: (Press AUX)

Denon 0059

Mitsubishi 0059
 NAD 0059
 Pioneer 0059
 Sony 0193, 0201

Setup Codes for Cassette

Decks:

(Press AUX)

Aiwa 0029, 0197
 Carver 0029
 Denon 0076
 Harman/Kardon 0182, 0029
 JVC 0244, 0273
 Kenwood 0070
 Magnavox 0029
 Marantz 0029
 Onkyo 0135, 0282
 Optimus 0027, 0220
 Panasonic 0229
 Philips 0029
 Pioneer 0027, 0220, 0099
 Sansui 0029
 Sony 0243, 0170, 0291
 Technics 0229
 Victor 0273
 Wards 0027
 Yamaha 0097, 0094

Setup Codes for Stereo Tuners or Receivers:

(Press RCV)

ADC 0531
 Adcom 0616
 Aiwa 0158, 0189, 0121, 0405
 Akai 0224
 Capetronic 0531
 Carver 0189, 0008, 0042, 0360
 Casio 0195
 Clarinette 0195
 Curtis Mathes 0080
 Denon 0004

Emerson 0424
 Fisher 0042, 0219, 0360
 Garrard 0463, 0424
 Harman/Kardon 0110, 0189, 0891
 JBL 0110
 JVC 0074
 Kenwood 0027, 0186, 0042, 0077
 Koss 0424
 LXI 0181
 Linn 0189
 Lloyd's 0195
 MCS 0039, 0346
 Magnavox 0531, 0189, 0195, 0391
 Marantz 0039, 0189
 Modulaire 0195
 NAD 0320
 Nakamichi 0097, 0347
 Onkyo 0135
 Optimus 0531, 0670, 0186, 0042, 0177, 0181,
 0219, 0738, 0801, 1023
 Panasonic 0039, 0309
 Penney 0195
 Philips 0189, 0391
 Pioneer 0531, 0014, 0150, 0630, 0080, 1023
 Quasar 0039
 RCA 0531, 0054, 0346, 0360, 0530
 Realistic 0195, 0163, 0181
 Sansui 0189, 0346
 Sanyo 0219, 0801
 Scott 0163, 0322
 Sharp 0186
 Sherwood 0491, 0502
 Sony 0158, 0168, 0474
 Soundesign 0670
 Teac 0463, 0163
 Technics 0039, 0309, 0208
 Victor 0074
 Wards 0158, 0014, 0189, 0080, 0054
 Yamaha 0176, 0186
 Yorx 0195

Zenith 0857

Setup Codes for Stereo Amplifiers: (Press AUX)

Aiwa 0406
 Carver 0269
 Curtis Mathes 0300
 Denon 0180
 Harman/Kardon 0892
 JVC 0331
 Linn 0269
 Magnavox 0269
 Marantz 0269
 Panasonic 0308
 Philips 0269, 0892
 Pioneer 0013, 0300
 Sony 0220, 0689
 Technics 0308
 Victor 0331
 Wards 0013
 Yamaha 0354

Setup Codes for Home Automation: (Press AUX)

GE 0240
 Lutron 0597
 One For All 0167
 Radio Shack 0240
 Security System 0167
 Universal X10 0167
 X10 0167

Setup Codes for DBS Audio Services:

(Press AUX)
 Aiwa 0010, 0159, 0404
 Fisher 0052
 Harman/Kardon 0477
 JBL 0477
 JVC 0073

Jerrold 0459, 0520
RCA 0056
Scientific Atlanta 0460
Sony 0010, 0159
Starcom 0459

**Setup Codes for Video Accessories:
(Press AUX)**

Archer 0160
GC Electronics 0160
Jebsee 0160
Rabbit 0081
Radio Shack 0160
TeleCaption 0171

Other Manufacturer's IR Codes

Appendix I - Wireless Keyboard Overview



Wireless Keyboard Basics

The Escient wireless keyboard can be used to control TuneBase 200 and provides the ability to more easily enter text. It is a standard keyboard with specialized keys for use with TuneBase 200.

Since the keys on this device are similar to keys on the remote, please refer to the previous appendix (Appendix H - Remote Overview). The only key that is different between the two devices is the SET key indicated below. It is used to set up the brand of device you want to control for each source. This key is used in conjunction with the Escient key to change the Escient product to be controlled between TuneBase 200 and TuneBase 200 (Default is TuneBase 200).



If you want to use your own USB keyboard instead of the Escient wireless keyboard, the following USB keyboards are supported (at the time of this manual printing): Microsoft Natural Keyboard Pro RT943, Belkin Scorpius 980 plus, COMPAQ USB KB, and the Eagle Touch MCK-600W USB by ORTEK Tech.

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TUNEBase 200 INSTALLATION & USER'S GUIDE - M21201-01A1

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